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ABSTRACT

This document is part 2 of the workbook for grade 3 pupils in the Comprehensive Instructional Management System, a unified mathematics curriculum for kindergarten through grade 7. Each objective is developed by a variety of strategies, with mastery of objectives diagnosed through a testing component. The activities in the student workbook are designed to provide practice in mastering the performance objectives, following the sequence in the teacher's manual. Over 120 performance objectives are included in this part of the grade 3 workbook, designed to develop computational, measurement, and fraction concepts and skills, in addition to other topics. (MNS)

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CIMS

COMPREHENSIVE INSTRUCTIONAL MANAGEMENT SYSTEM

A Cyclical Mathematics Curriculum

Workbook Part 2

NEW YORK CITY BOARD OF EDUCATION
OFFICE OF CURRICULUM DEVELOPMENT AND SUPPORT
DIVISION OF CURRICULUM & INSTRUCTION

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FOREWORD

The Comprehensive Instructional Management System (CIMS) is a unified mathematics curriculum for grades K-7. The curriculum is cyclical in design, and reflects the most recent New York City and New York State guidelines.

Utilizing the experience of our system's teachers, we have developed a teacher-designed curriculum that includes a rich selection of classroom-tested successful mathematics activities. The major goal of the CIMS mathematics project is to provide the classroom teacher with a well-structured, objective-based curriculum. All objectives are supported by a variety of strategies. Student mastery of these objectives is readily diagnosed through the system's testing component.

The curriculum format is structured to allow the teacher to determine the ability level of the students in the topic under study, and to permit the students to move forward at their individual rates. Each module of instruction provides the teacher with a set of related performance objectives. These objectives are supported by activities which probe and develop the students' readiness to undertake new skills and concepts. Further reinforcement is given to mastery of the objectives through accompanying student workbooks.

It is hoped that this curriculum will not only assist teachers in developing vital mathematics instruction, but will serve to expand and enrich students' mathematics skills.

Charlotte Frank,
Executive Director
Division of Curriculum and Instruction

ACKNOWLEDGMENTS

The Comprehensive Instructional Management System (CIMS) was developed as a project of the Division of Curriculum and Instruction, Charlotte Frank, Executive Director. Dr. Peter Negroni, Community School Superintendent CSD 12; Dr. Harvey Garner, Community School Superintendent CSD 18; Carlos Edwards, Community School Superintendent CSD 23, and Joseph Pacheco, Community School Superintendent CSD 32 supervised the overall development of the CIMS program within their respective districts.

Morris Freedman, Director of the Office of Curriculum Development and Support; Irwin Kaufman, Director of Mathematics; Kenneth Bates, Director of CIMS; Maria DeSalvio, Assistant Director of Mathematics; Arthur Flug and Doreen Genkin, Assistant Directors of CIMS and Gene Menchini, Program Manager, Distributive Systems, Office of Data Processing Coordination provided overall supervision of this project.

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Allan Dobrin, Office of Chief Administrator; Bebe Bernstein, Administrator, Curriculum Development Unit of the Office of Program Development and Geraldine Silver and Susan Wieder, Special Education Coordinators provided guidance and support in addressing these special needs.

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To The Teacher:

The activities in the CIMS student workbook are designed to provide the pupils with practice in mastering the curriculum's performance objectives and follows the sequence of the CIMS teacher's manual. Each workbook activity page lists the corresponding performance objective number in the upper left hand corner. The activity page numbers are identical to those found in the CIMS teacher's manual.

To The Student:

This mathematics workbook will help you to practice many of the new ideas your teachers have presented. Each worksheet has examples of the material you have studied in your daily mathematics lesson. As you proceed through this workbook, you will notice that you have learned many skills and will be ready to move on to more difficult ones.

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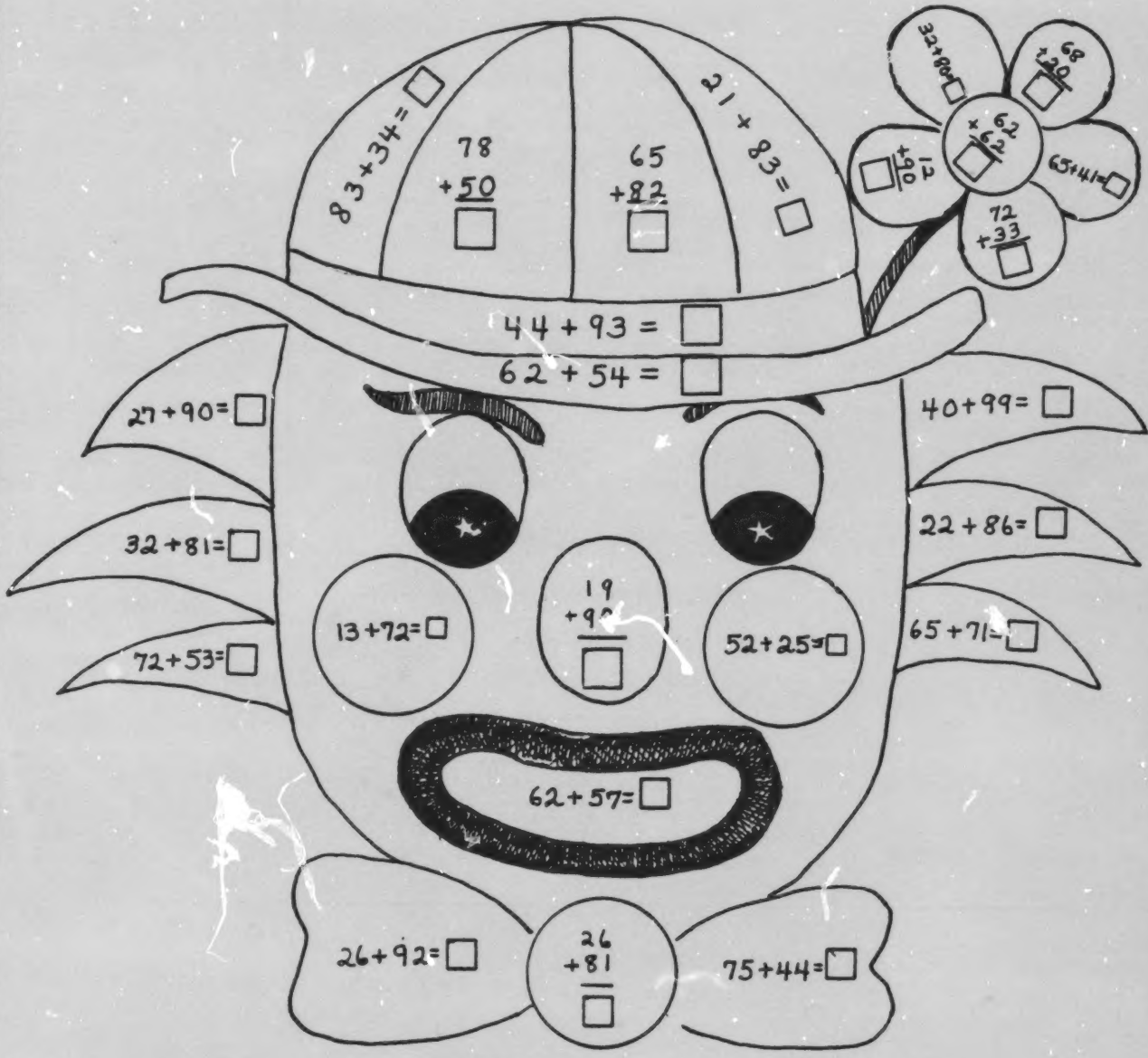
P.O. 3.02.03.01

NAME:_____ CLASS:_____ DATE:_____

Add. Use the answer key to color the examples.

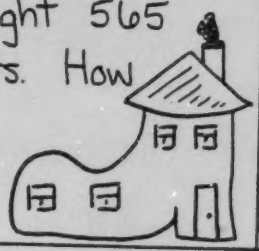
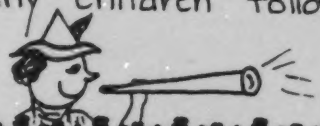


Red	Blue	Green	Yellow
85	117	118	113 102
77	139	129	108 112
109	116	125	137 88
119	122	136	104 106
128		147	105
107		124	

P.O. 3.02.03.02

NAME: _____ CLASS: _____ DATE: _____

Solve each story problem. Use addition by regrouping.

Jack the candlestick jumper, jumped over 315 candles on Monday. He jumped over 292 candles on Tuesday. How many candles did he jump over in all?	Work Here
Mary had 375 lambs. She bought 154 more. How many lambs does she have in all?	
The old woman who lived in a shoe bought dinner for her children. She bought 565 hamburgers and 352 frankfurters. How many did she buy in all? 	
Humpty Dumpty fell off the wall. His head broke into 468 pieces. His body broke into 291 pieces. How many pieces did Humpty Dumpty break into in all?	
The Pied Piper had 280 children follow him one day. The next day 455 children followed him. How many children followed him in all? 	

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P.O. 3.02.04.01

NAME: _____ CLASS: _____ DATE: _____

Can you solve the mystery message? Add each example. Match each answer to a letter. Place the letter over the same number in the message. Solve the message.

343 + 269	127 + 483	121 + 185 + 128	414 + 187
312 + 162 + 159	519 + 286	378 + 245	526 + 275
408 + 396	183 + 214 + 165	297 + 475	
324 + 243	532 + 178	216 + 134 + 482	

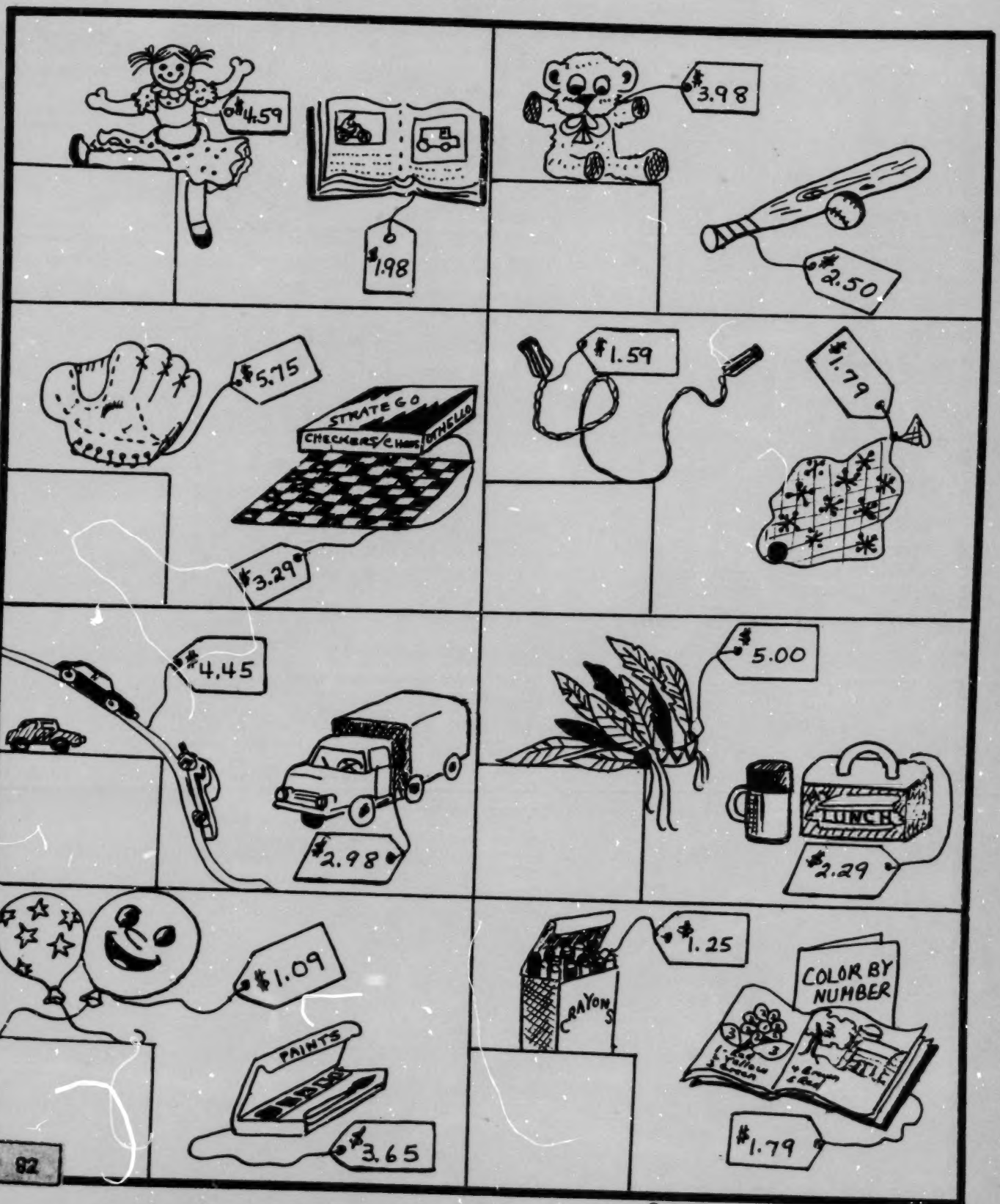
601	A
801	D
772	F
612	H
562	I
805	M
610	N
434	O
837	O
623	S
622	T
710	T
633	U
804	!

805	601	622	612	562	623	772	633	610	
710	434		801	837	804				

P.O. 3.02.04.02

NAME: _____ CLASS: _____ DATE: _____

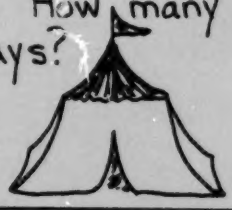
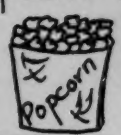
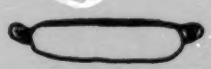
How much would you pay for each group of toys.
Write your answer in the box.



P.O. 3.02.04.03

NAME: _____ CLASS: _____ DATE: _____

Solve the following word problems.
Show all of your work.

On Saturday, 356 tickets were sold to the fair. On Sunday, 285 tickets were sold. How many tickets were sold on both days? 	Work Space check
John sold 287 boxes of popcorn. Jimmy sold 336 boxes of popcorn. How many boxes of popcorn were sold in all? 	check
Mark sold 516 soda drinks. Mary sold 394 soda drinks. How many soda drinks were sold in all?	check
The clown gave 438 balloons to the children on Saturday. He gave 299 balloons to the children on Sunday. How many balloons did he give out in all?	check
Mr. Brown sold 383 frankfurters. Ms. Brown sold 249 frankfurters. How many frankfurters were sold in all? 	check

03

P.O. 3.03.02.01

NAME: _____ CLASS: _____ DATE: _____

Subtract. Use the code to find the message.

CODE

383	463	130	451	394	171	261	494	482	150	140
R	E	U	L	Y	T	V	H	O	M	A

788 -394	967 -485	603 -473		438 -298	666 -283	746 -283

832 -692		742 -592	535 -395	343 -172	888 -394

923 -773	330 -190	979 -596	733 -472	729 -266	902 -451

84

P.O. 3.03.02.02

NAME: _____ CLASS: _____ DATE: _____

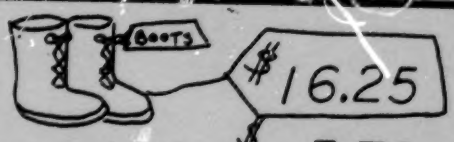
Subtract to find the sale price.

$74.50

amount off $23.70

sale price $50.80

$74.50
- 23.70
$50.80



$16.25

amount off 3.70

sale price $ _____

$62.75

amount off $10.95

sale price $ _____

96.45

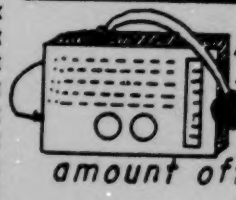
amount off $31.75

sale price $ _____

$18.75

amount off $6.95

sale price $ _____



$62.50

amount off $25.70

sale price $ _____

$49.50

amount off $15.90

sale price $ _____

P.O. 3.03.02.03

NAME:_____ CLASS:_____ DATE:_____

Use the information on the chart to solve the problems.

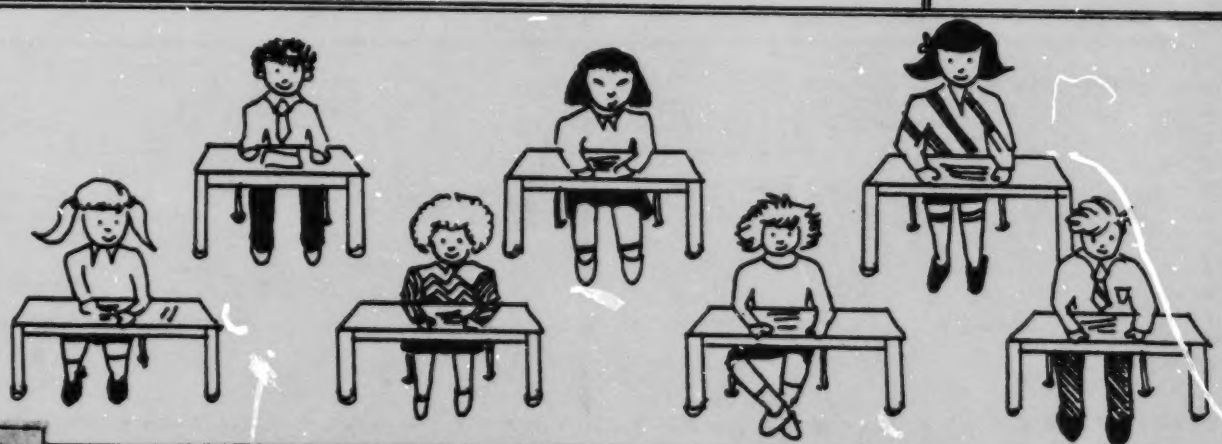
This chart shows the number of caps collected at P.S. 31.

Bottle Caps			
First Grade	2538	Fourth Grade	5697
Second Grade	4719	Fifth Grade	3842
Third Grade	3482	Sixth Grade	6550

1. How many more bottle caps did the third grade collect than the second grade?_____

2. How many more bottle caps did the sixth grade collect than the fourth grade?_____

3. How many more bottle caps did the second grade collect than the first grade?_____



96

P.O. 3.10.05.01

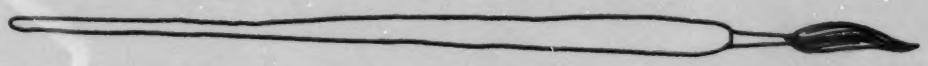
NAME: _____ CLASS: _____ DATE: _____

1. Use your ruler. Measure each length to the nearest ¼ inch.
2. Draw line segments that measure:

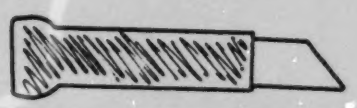
_____ inches

_____ inches

_____ inches



_____ inches



_____ inches

Draw line segments that measure:

1. $2\frac{3}{4}$ inches

2. $5\frac{1}{4}$ inches

3. $1\frac{2}{4}$ inches

4. $4\frac{3}{4}$ inches

5. $2\frac{1}{2}$ inches

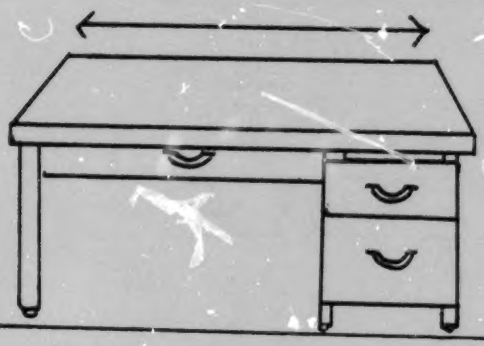
6. $3\frac{1}{4}$ inches

97

P.O. 3.10.05.02

NAME: _____ CLASS: _____ DATE: _____

1. Guess the length of each item in feet.
2. Measure each item.
3. Write your answer to the nearest foot.



Width of teacher's desk

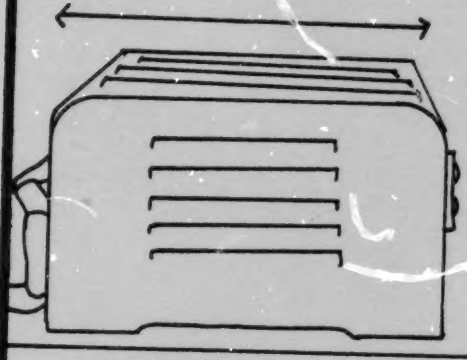
_____ ft. guess

_____ ft. actual length

Your neighbor's height

_____ ft. guess

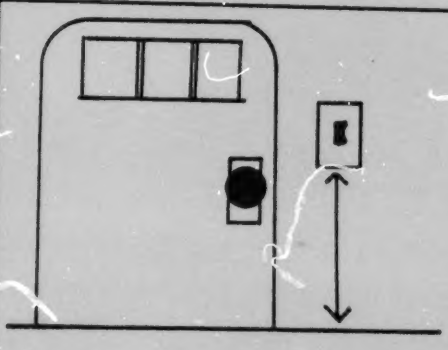
_____ ft. actual length



Width of radiator

_____ ft. guess

_____ ft. actual length



Distance from floor to light switch.

_____ ft. guess

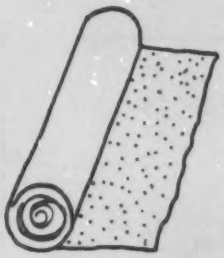
_____ ft. actual distance

98

P.O. 3.10.05.03

NAME: _____ CLASS: _____ DATE: _____

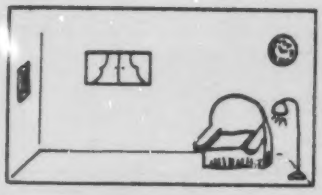
Write yes or no to tell if each thing should be measured in yards.



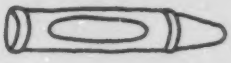
carpet _____

length of scissors _____

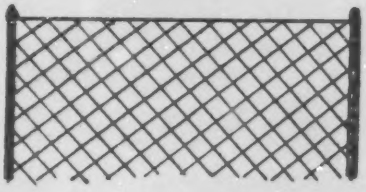
baseball bat _____



length of a room _____



crayon _____



width of a fence _____

P.O. 3.10.05.04

NAME: _____ CLASS: _____ DATE: _____

1. List objects that are usually measured in inches; feet; yards.
2. Fill in the blanks.

Things Measured in Inches	Things measured in feet	Things measured in yards
Pencil	Table	Carpet

12 inches = _____ ft.

24 inches = _____ ft.

36 inches = _____ yds.

P.O. 3.04.05.01

NAME: _____ CLASS: _____ DATE: _____

1. Write the multiplication fact and the product for each illustration.
2. Rewrite these facts in a different way and solve.

1.

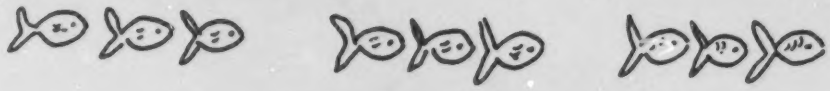
_____

2.

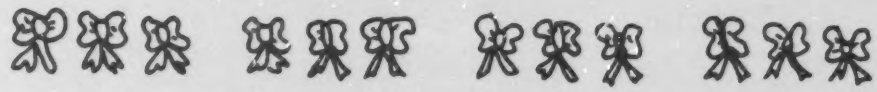
_____

3.

_____

4. 

_____

5. 

_____

6.

_____

$\begin{array}{r} 3 \\ \times\ 4 \\ \hline \end{array}$ _____

$\begin{array}{r} 3 \\ \times\ 9 \\ \hline \end{array}$ _____

$\begin{array}{r} 3 \\ \times\ 3 \\ \hline \end{array}$ _____

$\begin{array}{r} 3 \\ \times\ 8 \\ \hline \end{array}$ _____

101

P.O. 3.04.05.02

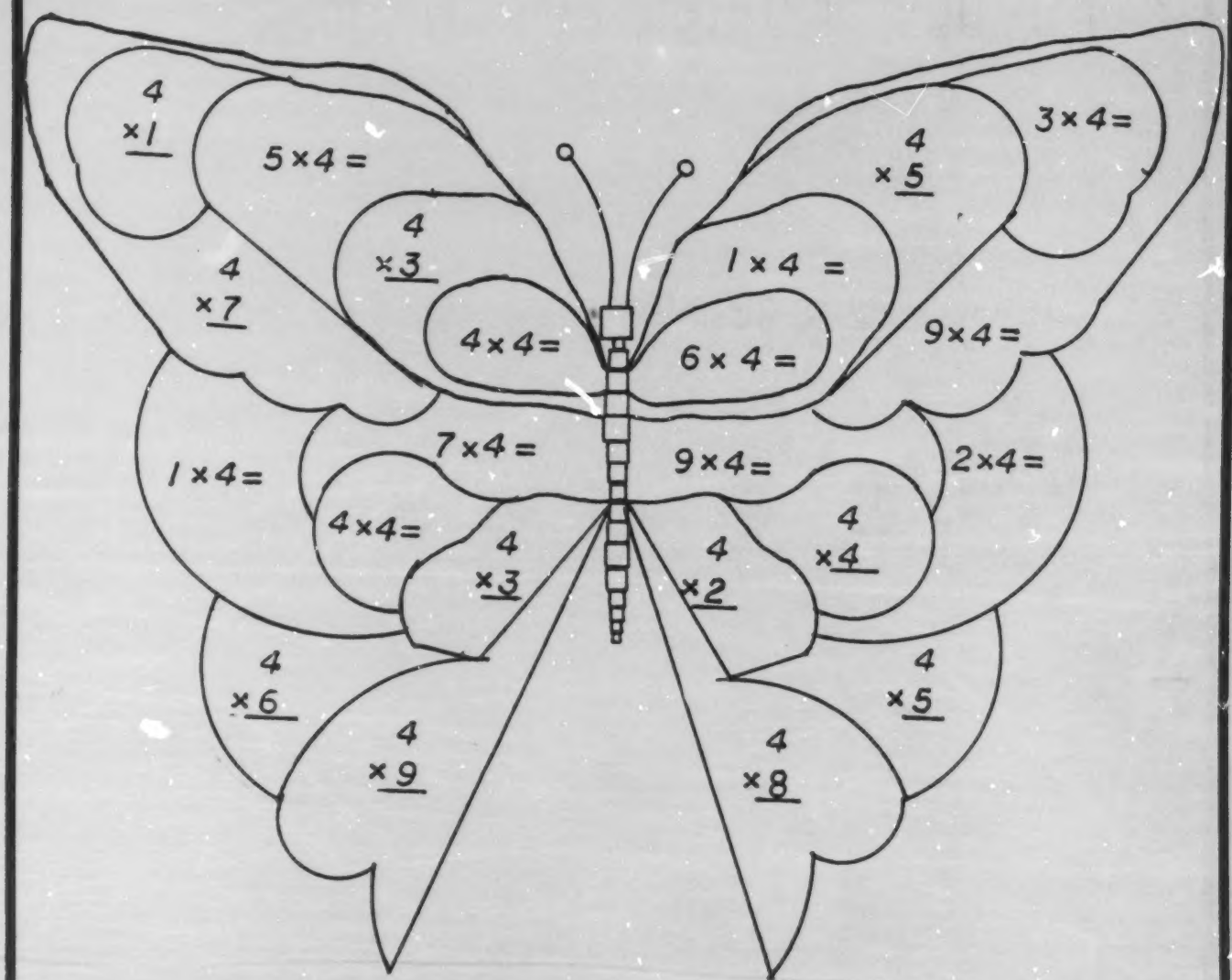
NAME: _____ CLASS: _____ DATE: _____

Multiply. Use the chart to color the butterfly.

color products 4,8 or 12 red

color products 16, 20 or 24 blue

color products 28 32 or 36 yellow

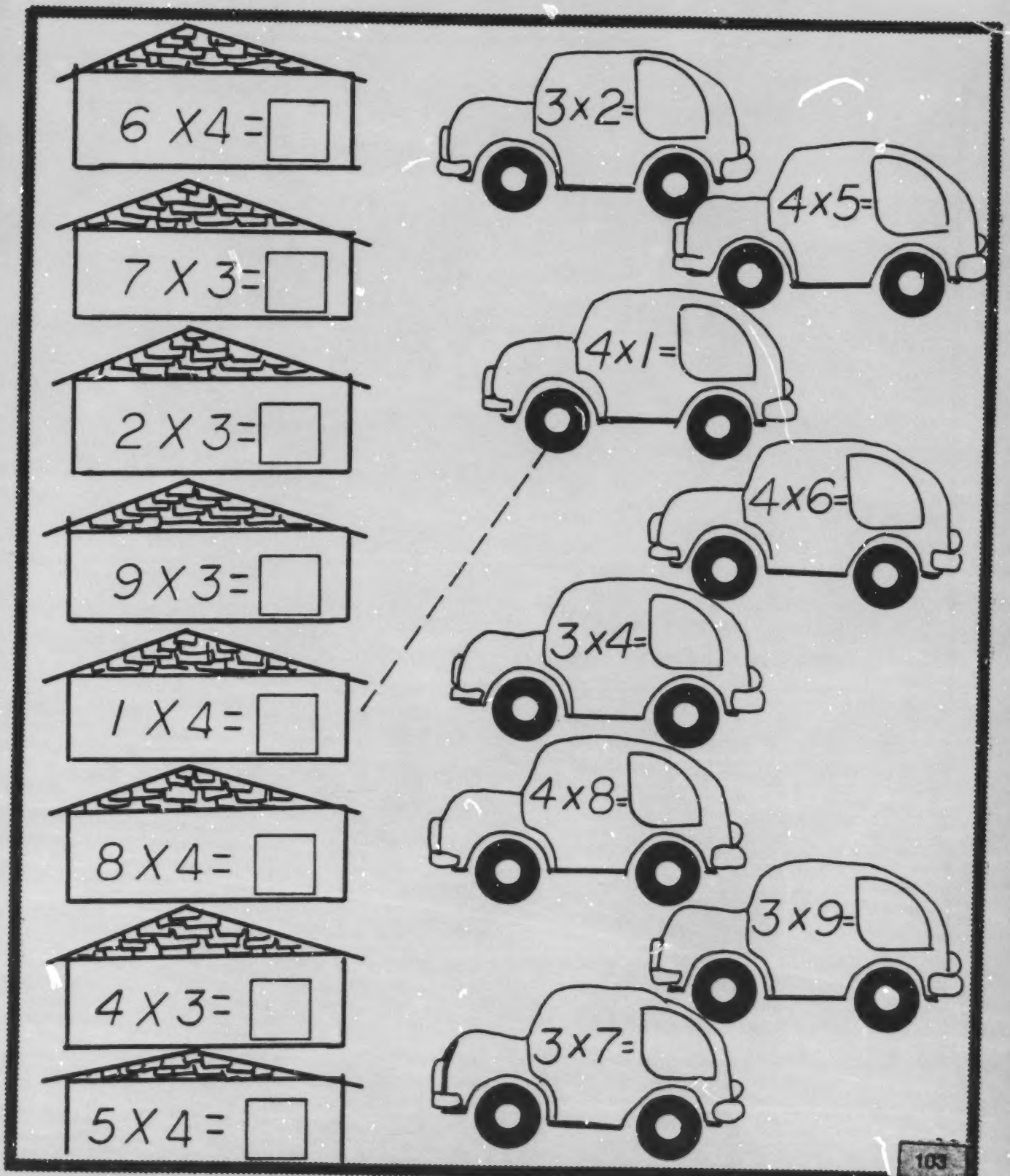


102

P.O. 3.04.05.03

NAME:_____ CLASS:_____ DATE:_____

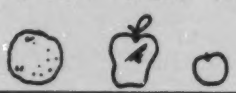
Park each car in its own garage and fill the box.



P.O. 3.04.05.04

NAME: _____ CLASS: _____ DATE: _____

Solve and check each problem.

	Work Here
Mary has five brothers. Each brother has four toy cars. How many toy cars are there in all?	
John, Tom and Mike went to the movies. They each bought a box of popcorn and a soda. How many things did they buy in all?	
Jane and her three friends, Mary, Sue and Sally went to the fruit store. Jane bought 3 apples. Mary bought 3 oranges. Sue and Sally bought 3 plums each. How many fruits did they buy in all? 	
Tony bought 8 pencils. Each pencil cost 4¢. How much did Tony spend in all?	
A tricycle has 3 wheels. How many wheels do 9 tricycles have?	

P.O. 3.05.03.01

NAME: _____ CLASS: _____ DATE: _____

Find each quotient.
Match each example to its quotient.

$3\overline{)27}$	$3\overline{)21}$	$3\overline{)18}$
$3\overline{)9}$	$3\overline{)3}$	$3\overline{)15}$
$3\overline{)6}$	$3\overline{)12}$	$3\overline{)24}$

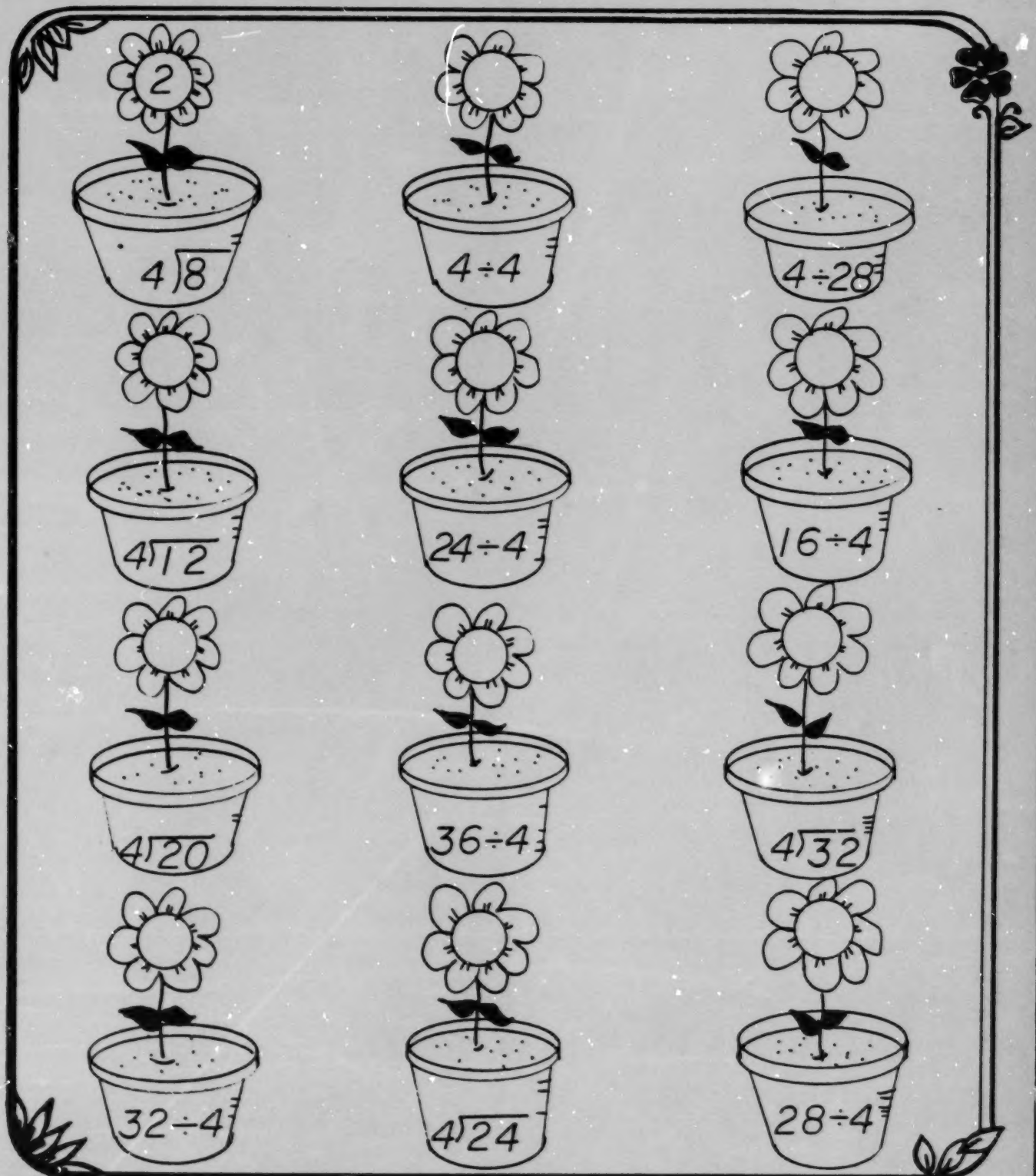
Match each example to its quotient

$3 \div 3 =$	1
$12 \div 3 =$	2
$24 \div 3 =$	3
$15 \div 3 =$	4
$21 \div 3 =$	5
$9 \div 3 =$	6
$18 \div 3 =$	7
$27 \div 3 =$	8
$6 \div 3 =$	9

P.O. 3.05.03.02

NAME: _____ CLASS: _____ DATE: _____

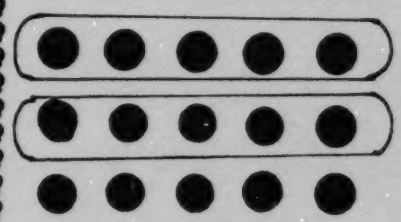
Write the quotient for each example in the flower.



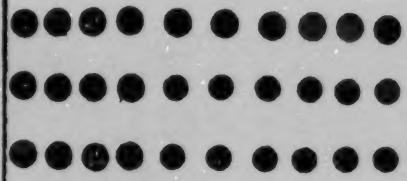
P.O. 3.06.02.01

NAME: _____ CLASS: _____ DATE: _____

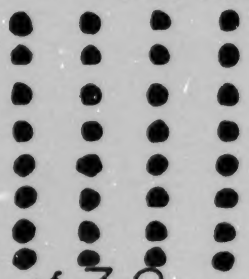
Circle the dots and complete the number sentence.



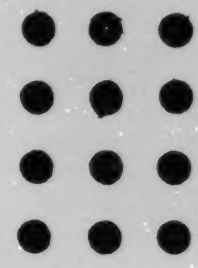
$\frac{2}{3}$ of 15 = 10



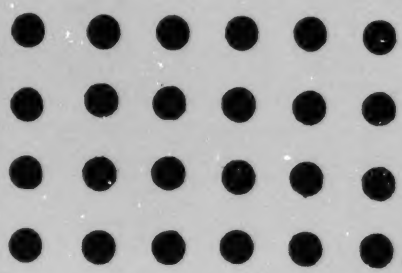
$\frac{2}{3}$ of 30 = ____



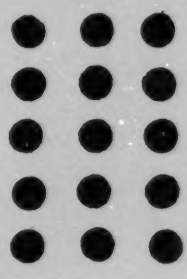
$\frac{3}{8}$ of 32 = ____



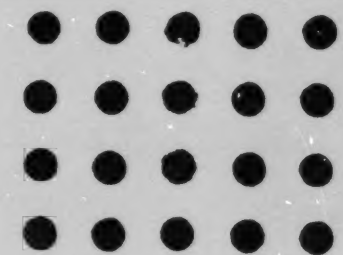
$\frac{2}{4}$ of 12 = ____



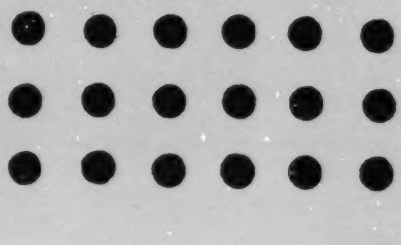
$\frac{3}{4}$ of 24 = ____



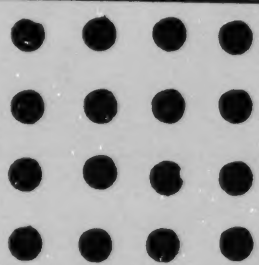
$\frac{2}{5}$ of 15 = ____



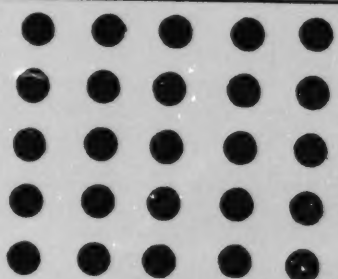
$\frac{2}{4}$ of 20 = ____



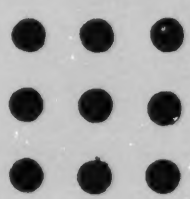
$\frac{2}{3}$ of 18 = ____



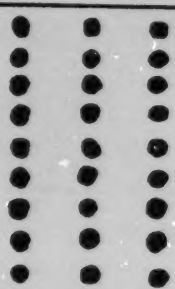
$\frac{3}{4}$ of 16 = ____



$\frac{3}{5}$ of 25 = ____



$\frac{2}{3}$ of 9 = ____

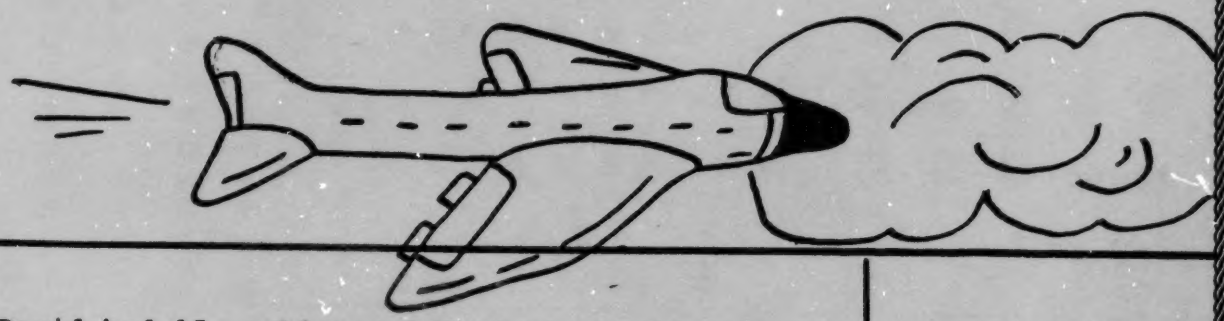


$\frac{5}{9}$ of 27 = ____

P.O. 3.06.02.02

NAME: _____ CLASS: _____ DATE: _____

Solve each problem.



David had 15 marbles. 2/5 of the marbles are blue. How many marbles are blue?	
The pet store has 27 animals. 2/3 of the animals are cats. How many cats are there?	
Lori baked 24 cup cakes. She frosted 3/4 of them chocolate. How many chocolate cupcakes did she have?	
The baseball team played 12 games. They won 2/3 of the games. How many games did they win.	
You have 32¢ You owe 2/4 of it to your friend. How much money do you owe your friend?	
There are 20 flowers in the garden. 2/5 of them are roses. How many roses are there?	

P.O. 3.10.06.01

NAME: _____ CLASS: _____ DATE: _____

Past the correct money value on the line.

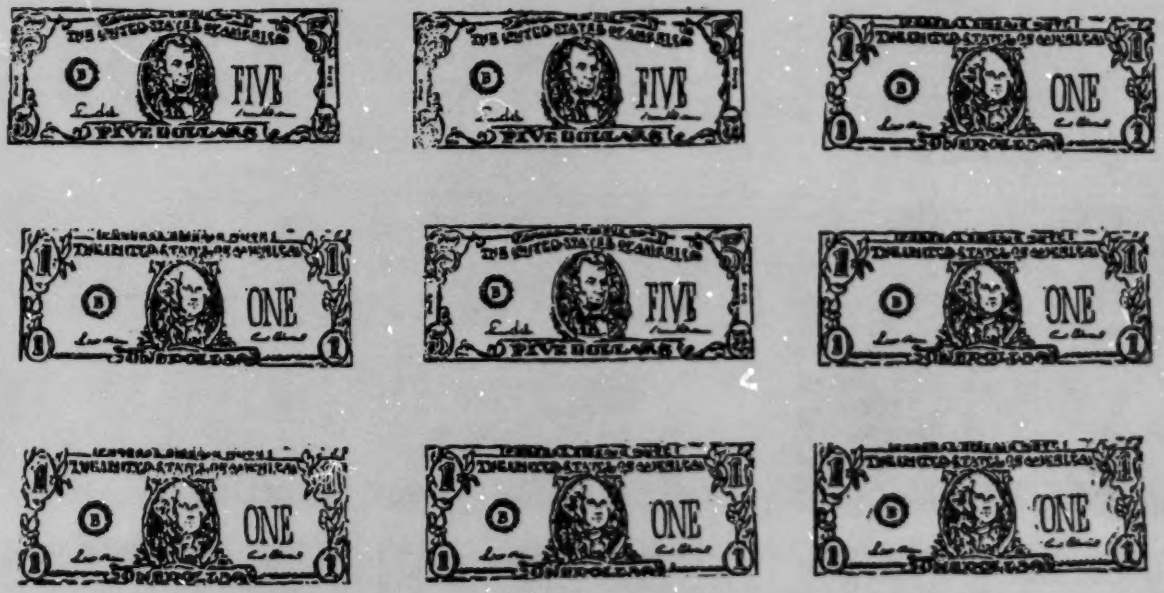
1) $5.00 _____

2) five dollar bill _____

3) How many one dollar bills equal one five dollar bill?

_____

_____



BEST COPY AVAILABLE

P.O. 3.10.06.02

NAME: _____ CLASS: _____ DATE: _____

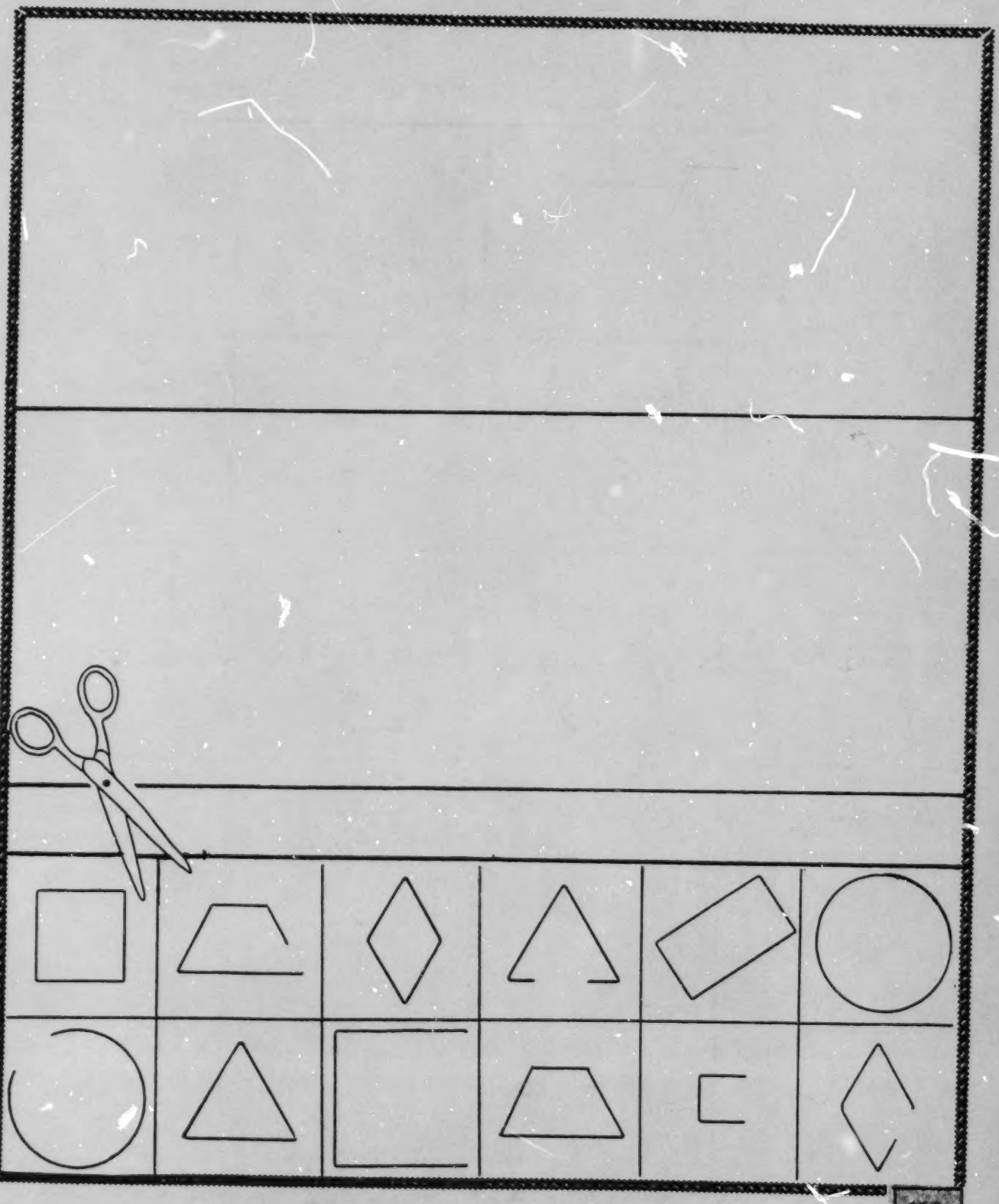
Cut out the money.
Show all the ways you can make $10.00.
Paste the money in your notebook.

BEST COPY AVAILABLE

P.O. 3.09.02.01

NAME: _____ CLASS: _____ DATE: _____

Cut and paste each shape in the correct space.



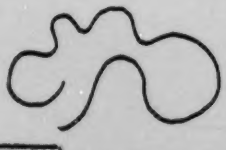
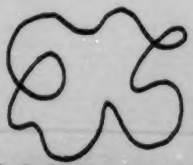
P.C. 3.09.02.02

NAME: _____ CLASS: _____ DATE: _____

Write C if the curve is closed.
Write O is the curve is open.

Write "C" if the circle is closed.

Write "O" if the circle is open.

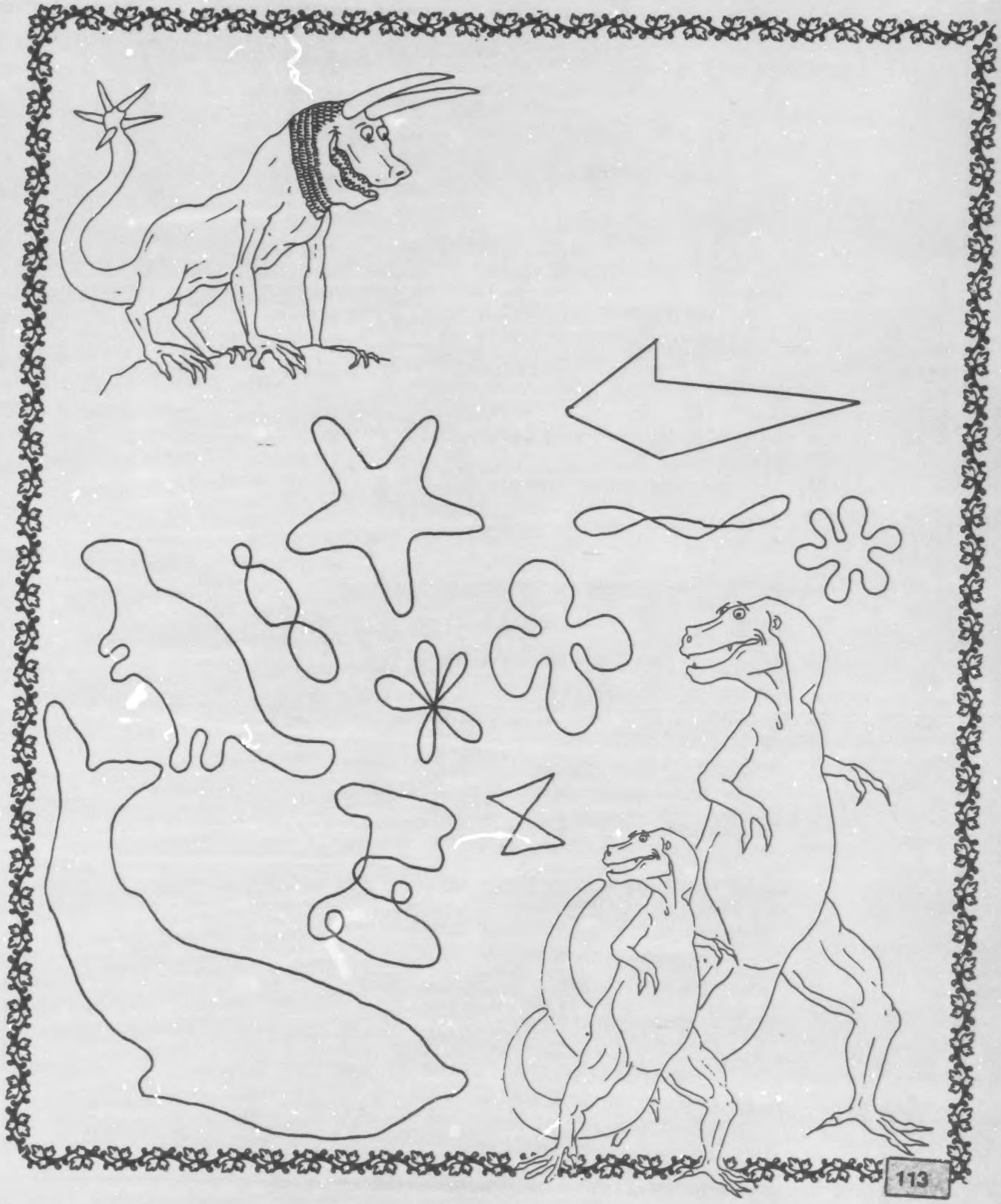
1 ___	2 ___	3 ___	4 ___
5 ___	6 ___	7 ___	8 ___
9 ___	10 ___	11 ___	12 ___
13 ___	14 ___	15 ___	16 ___
17 ___ 	18 ___ 	19 ___	20 ___

112

P.O. 3.09.02.03

NAME: _____ CLASS: _____ DATE: _____

Color the simple closed curves.



P.O. 3.13.02.01

NAME: _____ CLASS: _____ DATE: _____

Locate information and solve each problem using the chart.

SANDWICHES		DRINKS	
Ham	$1.75	Juice	$.80
Bologna	1.50	Tea	.50
Tuna Fish	1.95	Milk	.40
Cheese	1.30	Soda	.60
Egg Salad	1.45	Ice Cream Soda	1.25

John bought a sandwich and a drink. John paid $3.00 for both. What kind of sandwich did John buy?

Answer _____

Mary bought a drink and a sandwich. She paid $2.45 for both. Which drink did she buy? _____ Which sandwich did she buy? _____

I have $1.85 to spend. Which drink and which sandwich can I buy totaling $1.85?

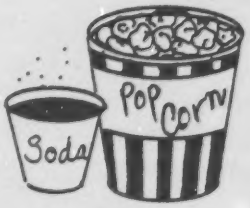
Answer _____

P.O. 3.13.02.02

NAME:_____ CLASS:_____ DATE:_____

Read each problem and question carefully. Then choose the important information to help you solve the problem.

Mary and Jane went to the movies. The movie theatre is very small. There are only nine rows of seats with five seats in each row. The price of the ticket is $1.50. Each girl bought popcorn for $.75 and a drink for $.50.
How much did each girl spend?
How many seats are there in the movie house?



WORK HERE

John and his father went to the baseball game. The first team scored 5 homeruns in the first part of the game. The second team scored 4 runs in the first part of the game. In the second part of the game the first team scored only one run, while the second team scored another 2 runs. John and his father ate 2 frankfurters each. The frankfurters cost $.90.
How much did the frankfurters cost in all?
How many home runs did each team make in the game?
Which team won the game?

P.O. 3.06.03.01

NAME: _____ CLASS: _____ DATE: _____

Find each sum.

When adding fractions with like denominators, add the numerators. Then write the sum over the denominator.

$$\begin{array}{r} \frac{2}{4} \\ +\frac{1}{4} \\ \hline \frac{3}{4} \end{array}$$

Find each sum.

$\frac{1}{8}$	$\frac{2}{9}$	$\frac{2}{7}$	$\frac{1}{10}$	$\frac{1}{5}$
$+\frac{3}{8}$	$+\frac{3}{9}$	$+\frac{3}{7}$	$+\frac{5}{10}$	$+\frac{1}{5}$
$\frac{4}{6}$	$\frac{2}{5}$	$\frac{2}{9}$	$\frac{2}{3}$	$\frac{3}{4}$
$+\frac{1}{6}$	$+\frac{2}{5}$	$+\frac{4}{9}$	$+\frac{1}{3}$	$+\frac{1}{4}$

$\frac{9}{10} + \frac{1}{10} = \square$	$\frac{6}{12} + \frac{2}{12} = \square$	$\frac{9}{16} + \frac{3}{16} = \square$
$\frac{2}{5} + \frac{4}{5} = \square$	$\frac{1}{9} + \frac{5}{9} = \square$	$\frac{1}{8} + \frac{2}{8} = \square$

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P.O. 3.06.03.02

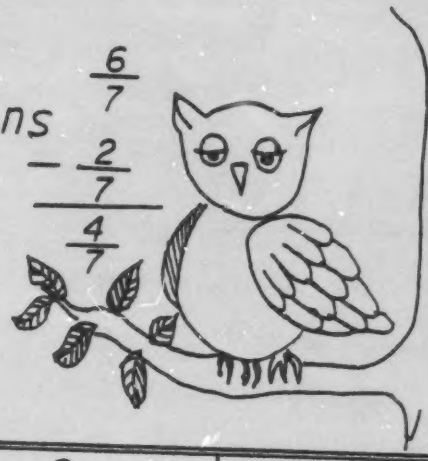
NAME: _____ CLASS: _____ DATE: _____

Find each difference.

BE WISE!

When subtracting fractions with like denominator's, subtract the numerator s. Write the difference over the denominator.

$$\begin{array}{r} \frac{6}{7} \\ -\frac{2}{7} \\ \hline \frac{4}{7} \end{array}$$



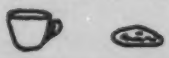
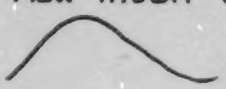
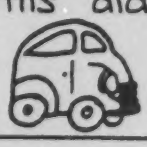
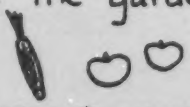
$\begin{array}{r} \frac{7}{8} \\ -\frac{2}{8} \\ \hline \end{array}$	$\begin{array}{r} \frac{5}{6} \\ -\frac{2}{6} \\ \hline \end{array}$	$\begin{array}{r} \frac{6}{12} \\ -\frac{4}{12} \\ \hline \end{array}$	$\begin{array}{r} \frac{5}{8} \\ -\frac{3}{8} \\ \hline \end{array}$
$\begin{array}{r} \frac{8}{9} \\ -\frac{8}{9} \\ \hline \end{array}$	$\begin{array}{r} \frac{12}{6} \\ -\frac{3}{6} \\ \hline \end{array}$	$\begin{array}{r} \frac{9}{10} \\ -\frac{3}{10} \\ \hline \end{array}$	$\begin{array}{r} \frac{8}{9} \\ -\frac{5}{9} \\ \hline \end{array}$

$\frac{8}{7} - \frac{3}{7} = \square$	$\frac{6}{4} - \frac{3}{4} = \square$	$\frac{1}{2} - \frac{1}{2} = \square$
$\frac{9}{10} - \frac{4}{10} = \square$	$\frac{2}{2} - \frac{1}{2} = \square$	$\frac{11}{12} - \frac{4}{12} = \square$

P.O. 3.06.03.03

NAME: _____ CLASS: _____ DATE: _____

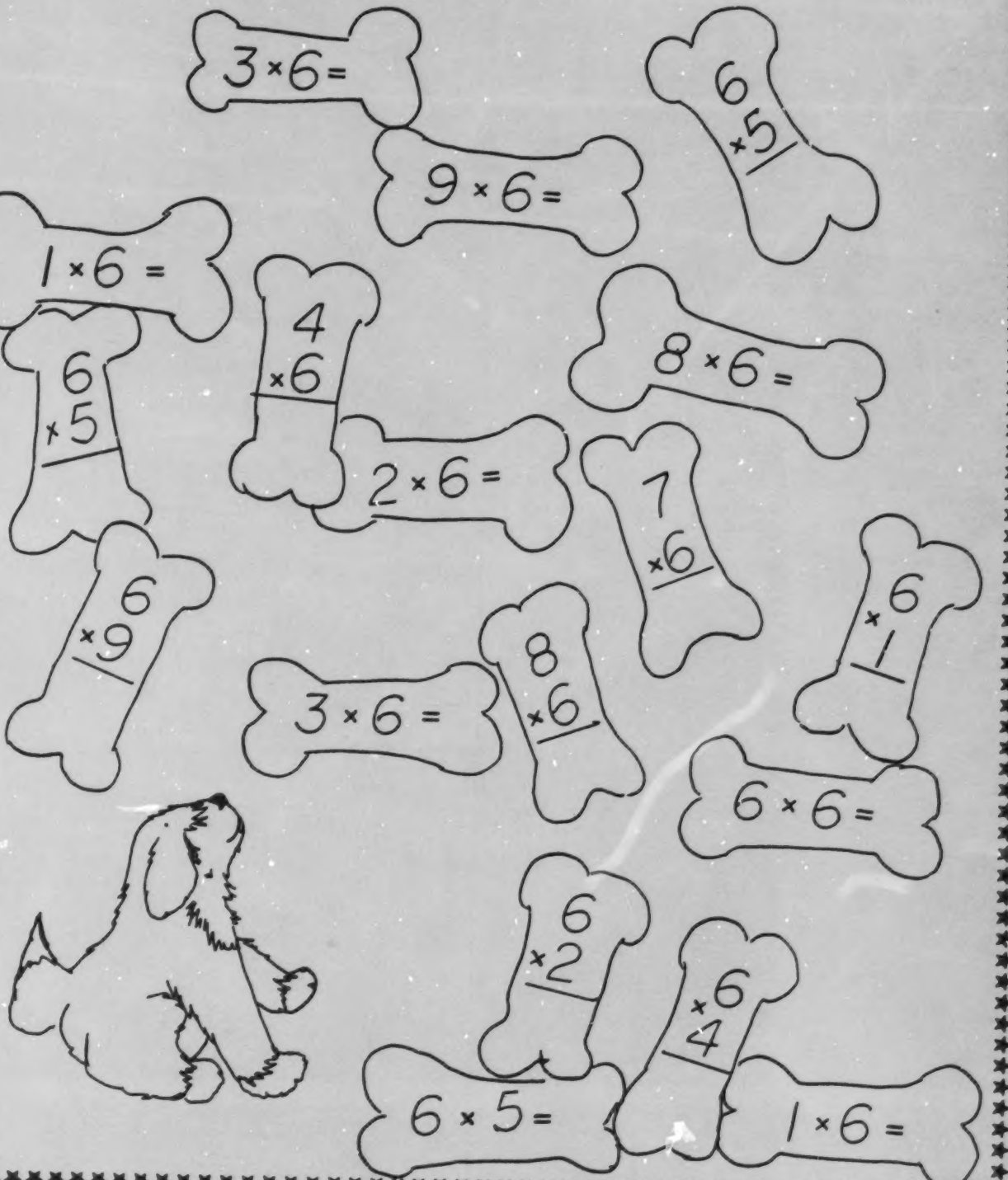
Read and solve each problem.
Show your work.

	Work Space
Recipe: fruit bars - $\frac{3}{4}$ cup of flour oatmeal cookies - $\frac{1}{4}$ cup of flour How much more flour is needed for the fruit bars? 	
Jack and Jill walked $\frac{2}{10}$ mile up the hill and $\frac{4}{10}$ mile down the hill. How much did they walk in all? 	
If Lee ate $\frac{2}{4}$ of an apple, how many fourths are left? (Clue: How many fourths in a whole?)	
Ron grew $\frac{2}{8}$ of an inch in January and $\frac{4}{8}$ of an inch in February. How much did he grow altogether?	
There was $\frac{3}{4}$ of a tank of gas when the Smith family left. When they returned there was $\frac{1}{4}$ of a tank left. How many fourths did they use on their trip? 	
Jim planted $\frac{2}{7}$ of the garden with corn. He planted $\frac{3}{7}$ with tomatoes. How much of the garden did Jim use? 	

P.O. 3.04.05.01

NAME: _____ CLASS: _____ DATE: _____

Help Multidog gather his bones.
Find the product for each example.



P.O. 3.04.06.02

NAME: _____ CLASS: _____ DATE: _____

Complete each multiplication sentence.

2 x 7 =

10 x 7 =

5 x 7 =

3 x 7 =

7 x 7 =

8 x 7 =

1 x 7 =

9 x 7 =

4 x 7 =

6 x 7 =

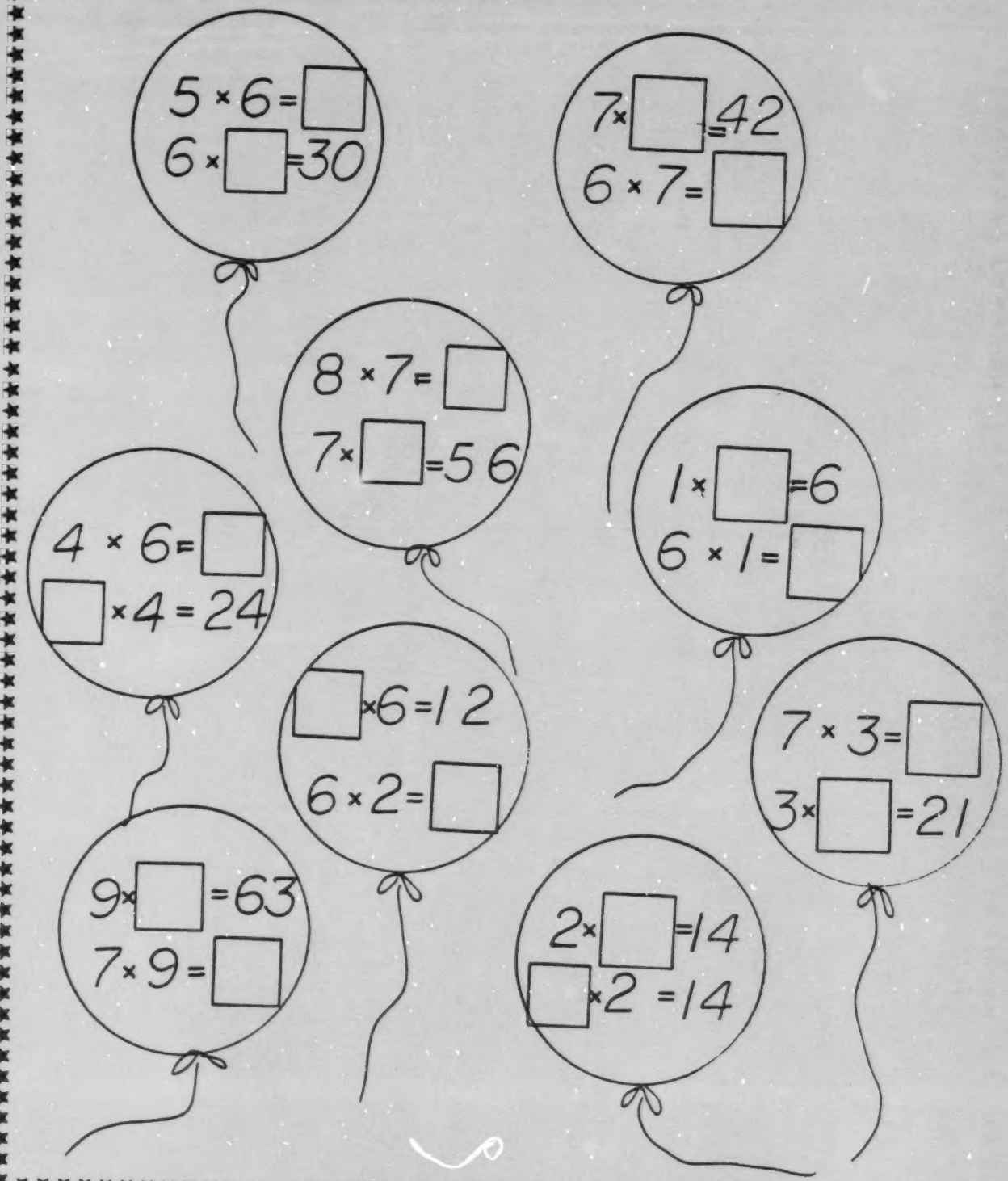
120

7 x 4 =	7 x 1 =	7 x 6 =	7 x 10 =
7 x 8 =	7 x 3 =	7 x 9 =	
7 x 7 =	7 x 2 =	7 x 5 =	

P.O. 3.04.06.03

NAME: _____ CLASS: _____ DATE: _____

Catch the balloons by filling in the boxes.



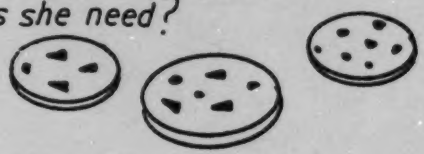
P.O. 3.04.06.04

NAME:_____ CLASS:_____ DATE:_____

Solve each problem.

Solve each problem.

1. Mary had 7 plates. She wants to serve 6 cookies on each plate. How many cookies does she need?

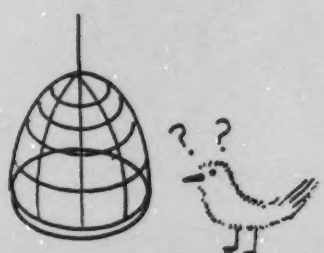


2. Carlos saves baseball cards. 5 cards come in one pack. Carlos bought 6 packs.

How many baseball cards did he get?

3. Wanda has 3 dolls. She made 6 dresses for each doll. How many dresses did she make?

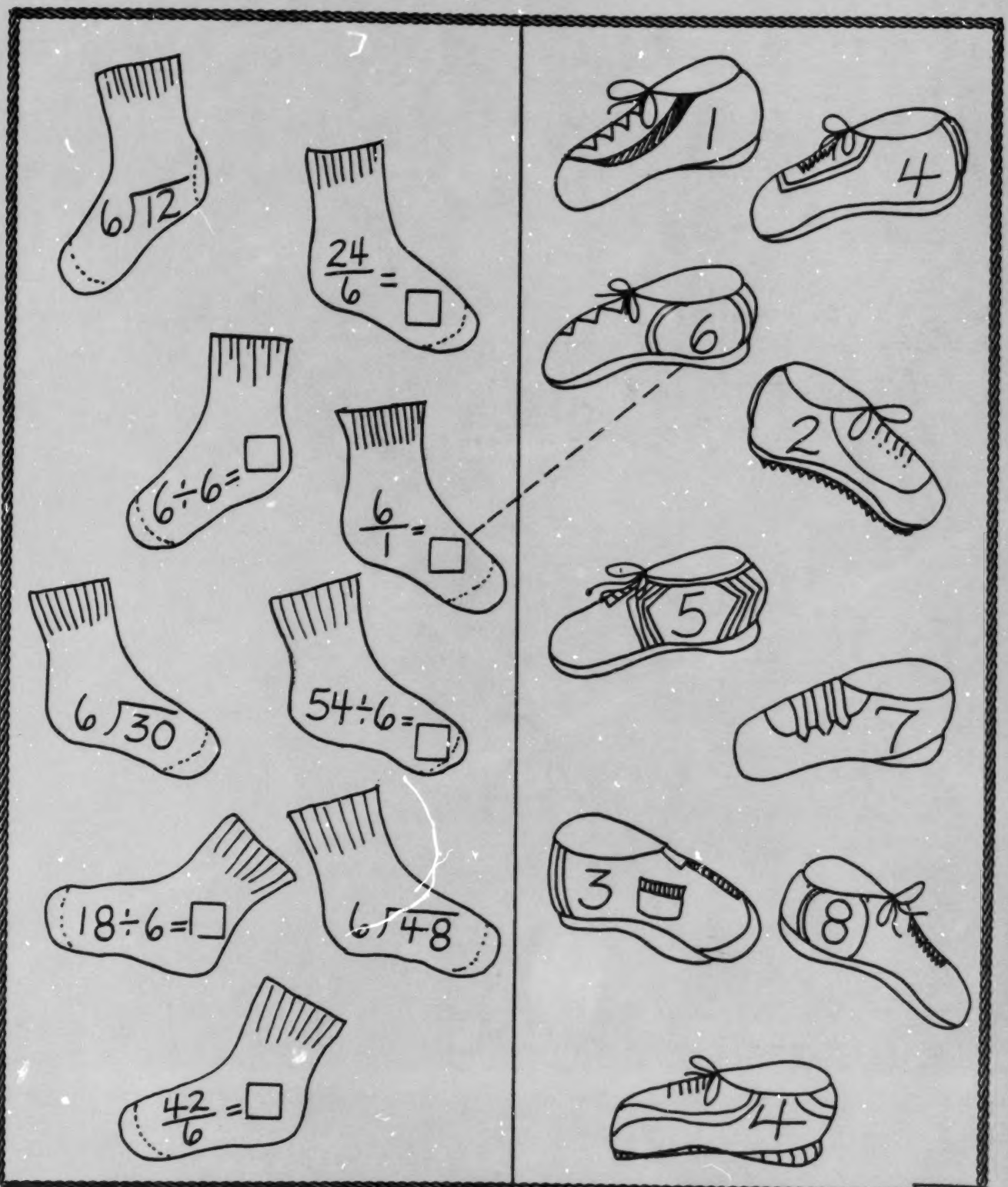
4. There are 2 birds in each cage.
There are 7 cages. How many birds in all ?



P.O. 3.05.04.01

NAME: _____ CLASS: _____ DATE: _____

Find the shoe for each sock.



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P.O. 3.05.04.02

NAME: _____ CLASS: _____ DATE: _____

Find the quotient for each example.

$63 \div 7 = \square$

$7\overline{)\square\,49}$

$\frac{7}{7} = \square$

$\frac{56}{7} = \square$

$42 \div 7 = \square$

$7\overline{)\square\,35}$

$7\overline{)\square\,21}$

$\frac{42}{7} = \square$

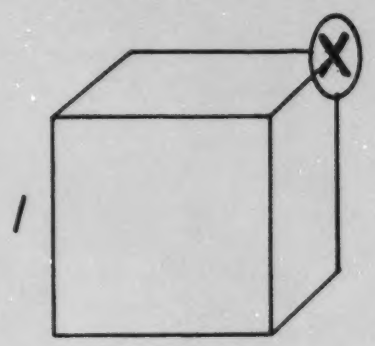
$7\overline{)\square\,28}$

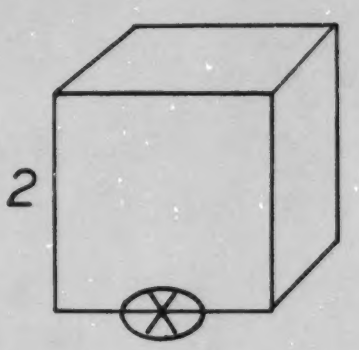
$14 \div 7 = \square$

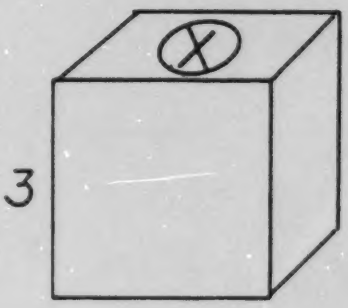
P.O. 3.09.03.01

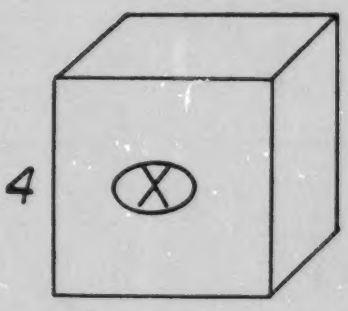
NAME:_____ CLASS:_____ DATE:_____

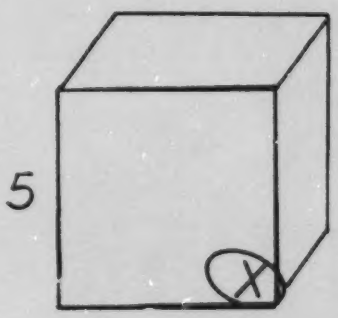
Write the word which tells where the X is placed on the block.

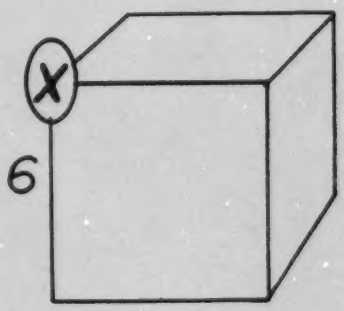












VERTEX FACE EDGE ANGLE

P.O. 3.09.03.02

NAME: _____ CLASS: _____ DATE: _____

Write the correct word under each picture (cone, sphere, cylinder or cube

1.

_____

2.

_____

3.

_____

4.

_____

5.

_____

6.

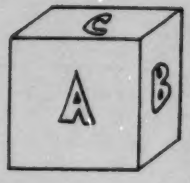
_____

7.

_____

8.

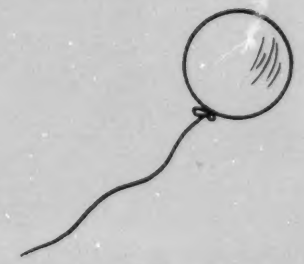
_____

9. 

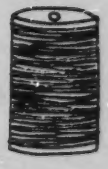
_____

10.

_____

11. 

_____

12. 

_____

P.O. 3.09.03.03

NAME: _____ CLASS: _____ DATE: _____

In each space construct the shape written at the top. You may use a protractor, ruler and compass. Some are started for you.

cone

A ——— B

cylinder

A ——— B

C ——— D

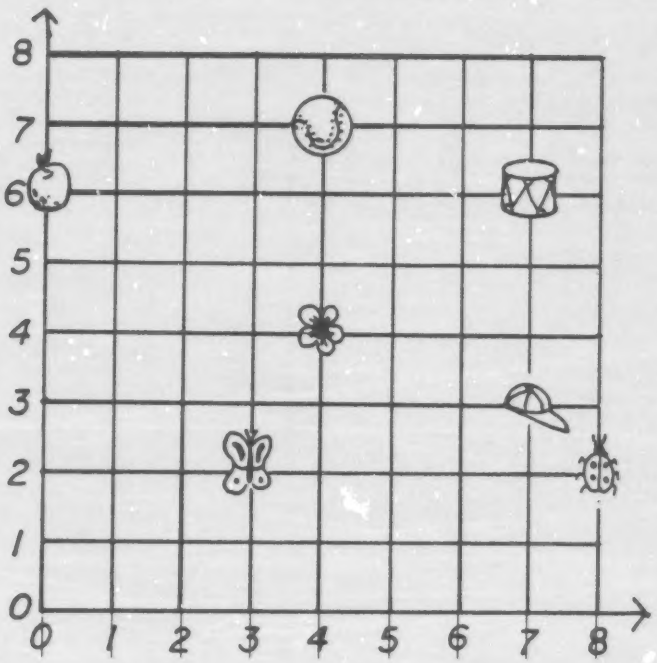
cube

sphere

P.O.3.09.04.01

NAME:_____ CLASS:_____ DATE:_____

Write the ordered pairs for the objects on the grid.



Apple _____ Cap _____

Butterfly_____ Beetle_____

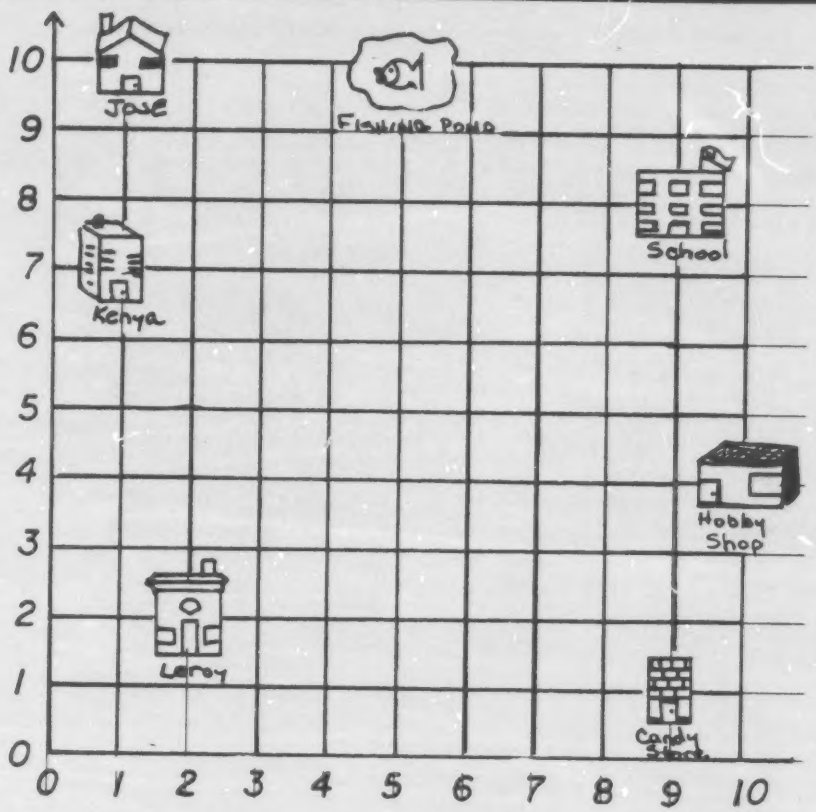
Drum _____ Cupcake____

Flower _____

P.O. 3.09.04.02

NAME: _____ CLASS: _____ DATE: _____

Use the grid to answer the questions.



1. How can Leroy get to school? _____

2. How can Kenya get to the fishing pond? _____

3. How can Jose go to Leroy's house? _____

4. Is there another way? _____

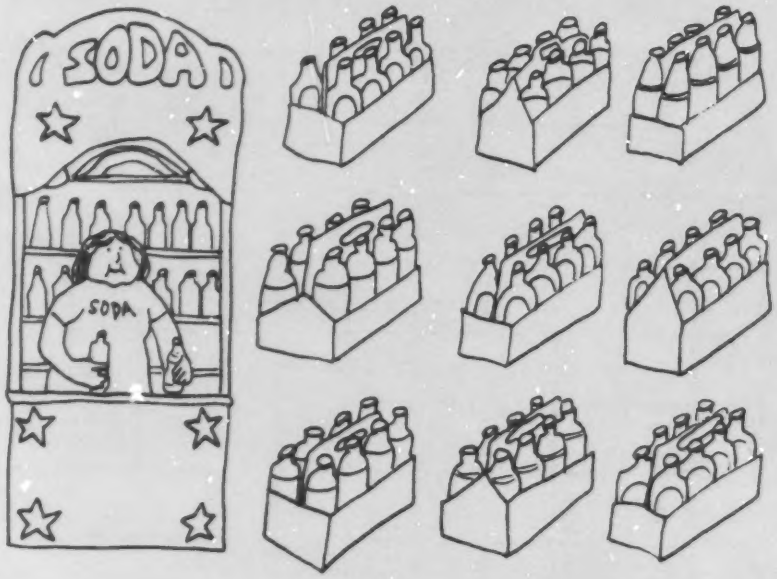
5. Mary went from Kenya's house to the hobby shop. How did she go? _____.

6. How do you go from the candy store to school?

P.O. 3.04.07.01

NAME: _____ CLASS: _____ DATE: _____

Solve each equation.
Color the picture.



1. $2 \times 8 =$ _____
2. $4 \times 8 =$ _____
3. $5 \times 8 =$ _____
4. $3 \times 8 =$ _____
5. $1 \times 8 =$ _____
6. $9 \times 8 =$ _____
7. $7 \times 8 =$ _____
8. $8 \times 8 =$ _____
9. $2 \times 8 =$ _____
10. $1 \times 8 =$ _____
11. $5 \times 8 =$ _____
12. $3 \times 8 =$ _____
13. $6 \times 8 =$ _____
14. $4 \times 8 =$ _____
15. $\begin{array}{r} 7 \\ \times 8 \\ \hline \end{array}$
16. $\begin{array}{r} 6 \\ \times 8 \\ \hline \end{array}$
17. $\begin{array}{r} 9 \\ \times 8 \\ \hline \end{array}$
18. $\begin{array}{r} 3 \\ \times 8 \\ \hline \end{array}$
19. $\begin{array}{r} 4 \\ \times 8 \\ \hline \end{array}$
20. $\begin{array}{r} 8 \\ \times 8 \\ \hline \end{array}$

Top Score = 20 (100%)

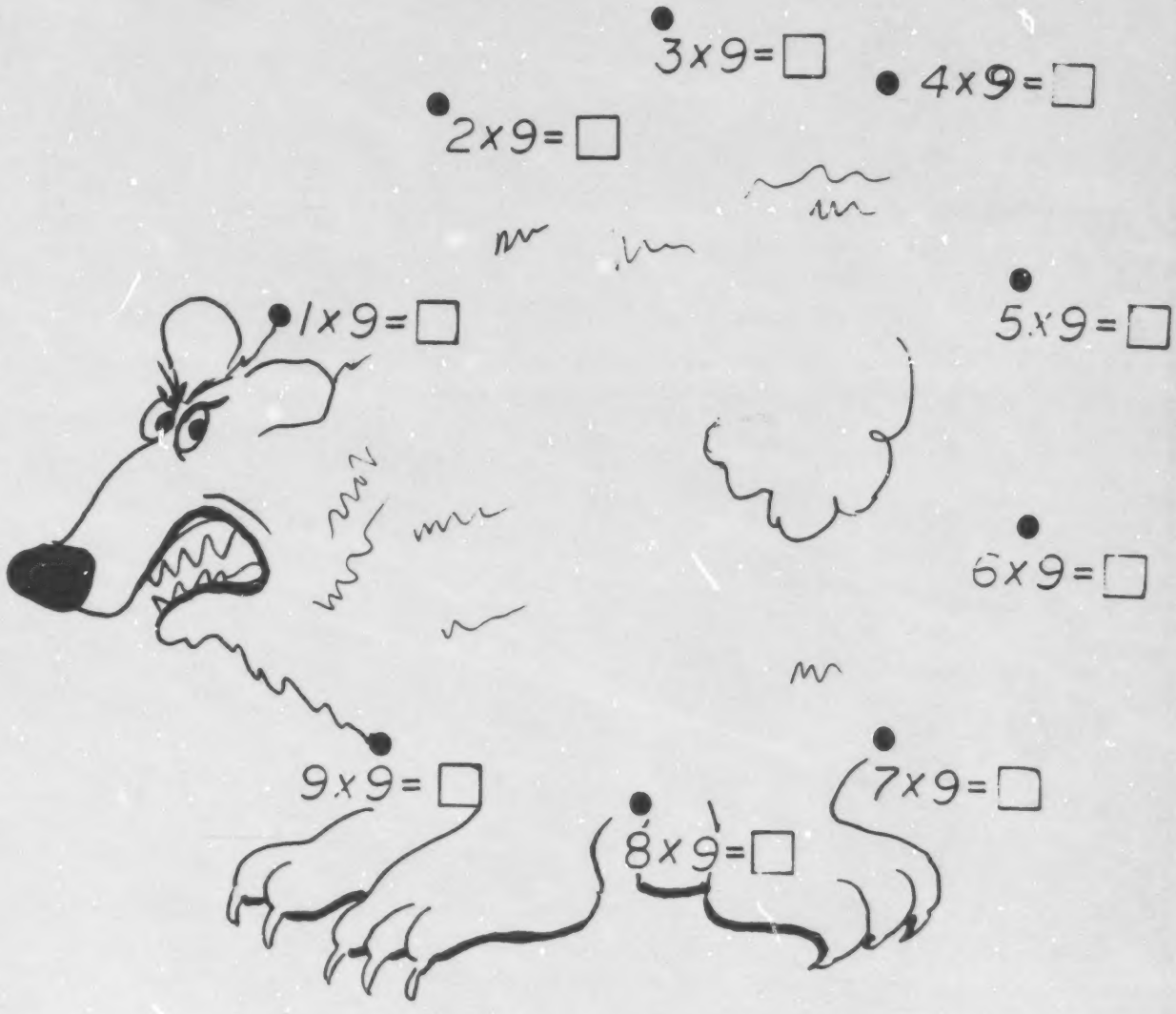
My Score = ____ ( )

P.O. 3.04.07.02

NAME: _____ CLASS: _____ DATE: _____

Write the products in the boxes.
Connect the dots in order.

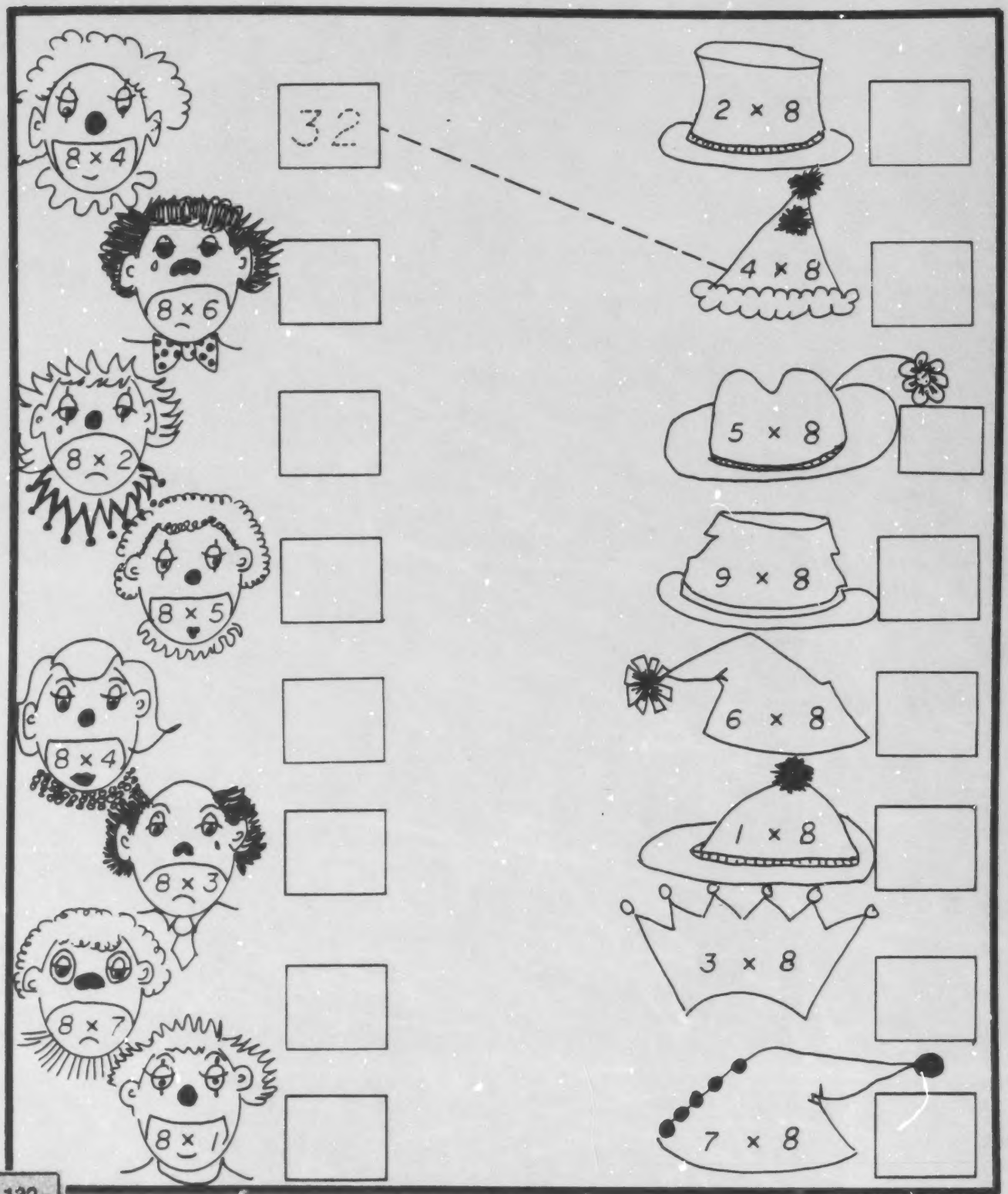
WRITE THE PRODUCTS IN THE BOXES.
CONNECT THE DOTS IN ORDER.



P.O. 3.04.07.03

NAME: _____ CLASS: _____ DATE: _____

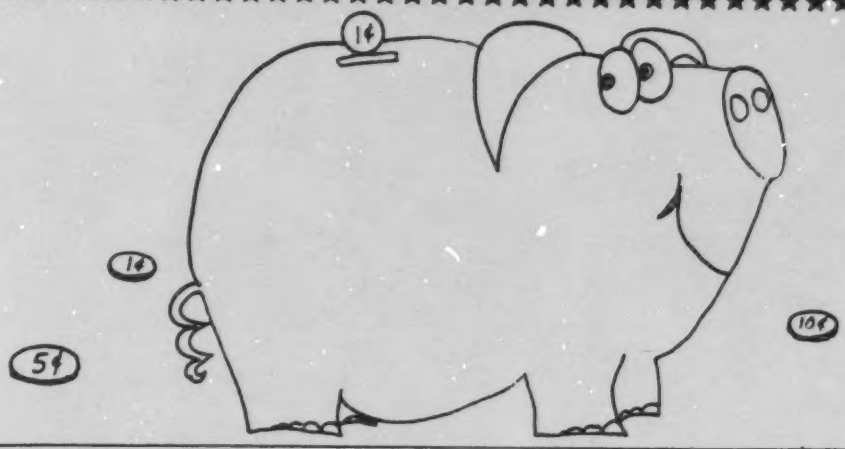
Match the clown to his hat.
Write the answer to the problem.



P.O. 3.04.07.04

NAME: _____ CLASS: _____ DATE: _____

Solve each problem.



	Work Here
Betty bought 2 pencils. Each pencil cost 6¢. How much did she spend? _____	
John has 6 nickels. How much money does he have? _____	
Sue bought 6 pens. Each pen cost 7¢. How much did she spend? _____	
Paul, Mike, Steve and Mark each have 6¢. How much money do they have altogether? _____	
Mary earns 6¢ everyday. How much money does she earn in 3 days? _____ 5 days? _____ 8 days? _____ 9 days? _____	

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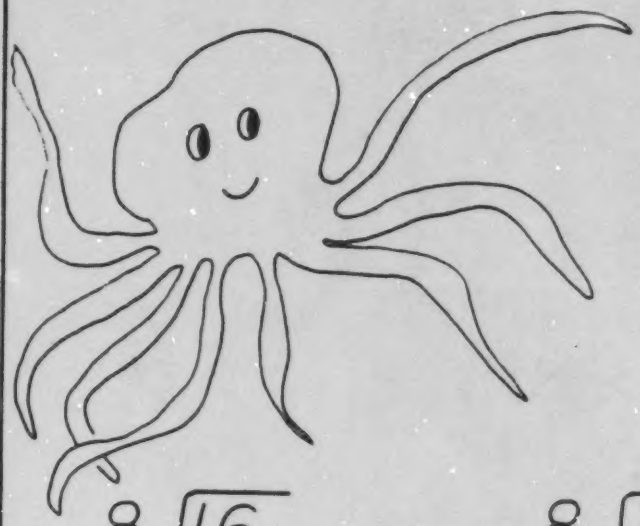
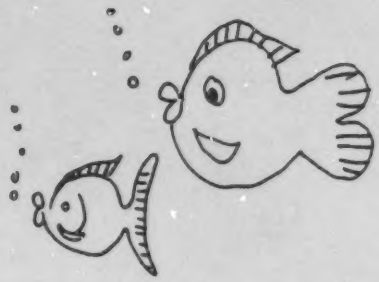
P.O. 3.05.05.01

NAME: _____ CLASS: _____ DATE: _____

Find the missing numbers.





$8\overline{)16}$ $8\overline{)32}$ $8\overline{)8}$

$16 \div 8 =$ ___ $32 \div 8 =$ ___ $8 \div 8 =$ ___

$8\overline{)72}$ $8\overline{)48}$ $8\overline{)24}$

$\frac{72}{8} =$ ___ $\frac{48}{8} =$ ___ $\frac{24}{8} =$ ___

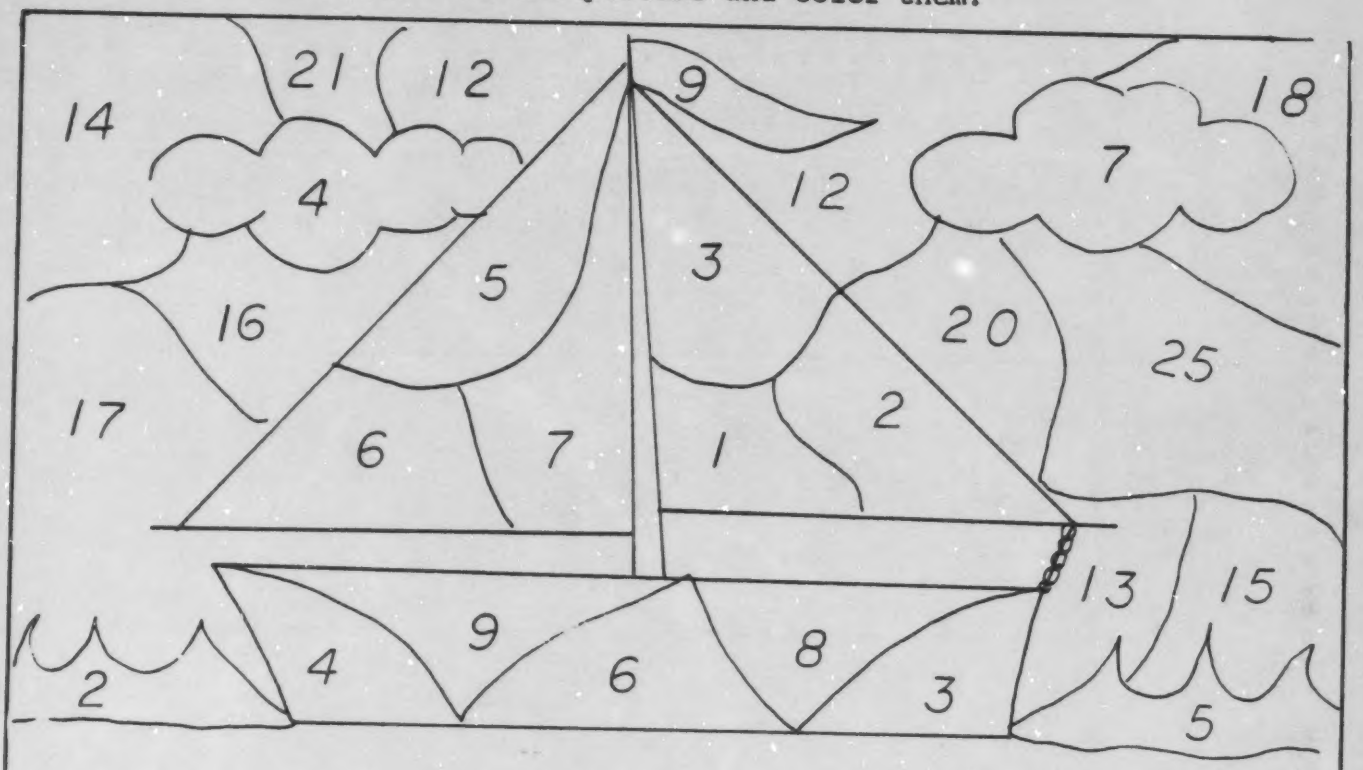
$\frac{64}{8} =$ ___ $\frac{56}{8} =$ ___ $\frac{40}{8} =$ ___

$56 \div 8 =$ ___ $64 \div 8 =$ ___ $40 \div 8 =$ ___

P.O. 3.05.05.02

NAME: _____ CLASS: _____ DATE: _____

Correct quotient.
Divide.
Find the quotients in the picture and color them.



$27 \div 9 = \square$ $54 \div 9 = \square$ $81 \div 9 = \square$ $9\overline{)63}$

$45 \div 9 = \square$ $72 \div 9 = \square$ $9\overline{)18}$ $9\overline{)54}$

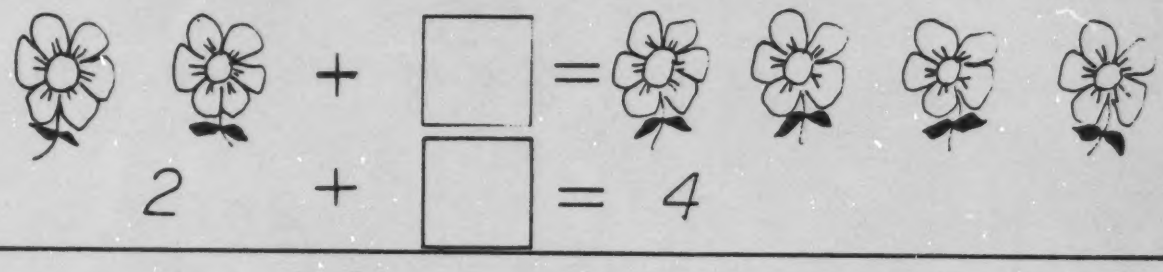
$9 \div 9 = \square$ $18 \div 9 = \square$ $9\overline{)36}$ $9\overline{)81}$

$36 \div 9 = \square$ $63 \div 9 = \square$ $9\overline{)45}$ $9\overline{)27}$

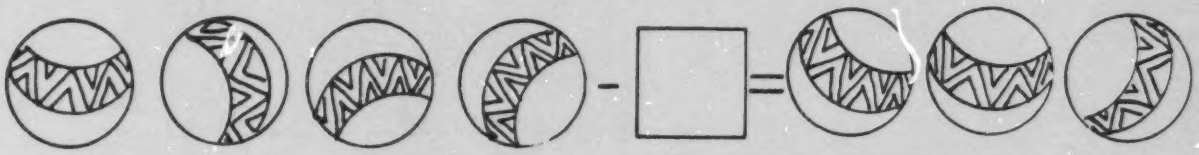
P.O. 3.11.01.01

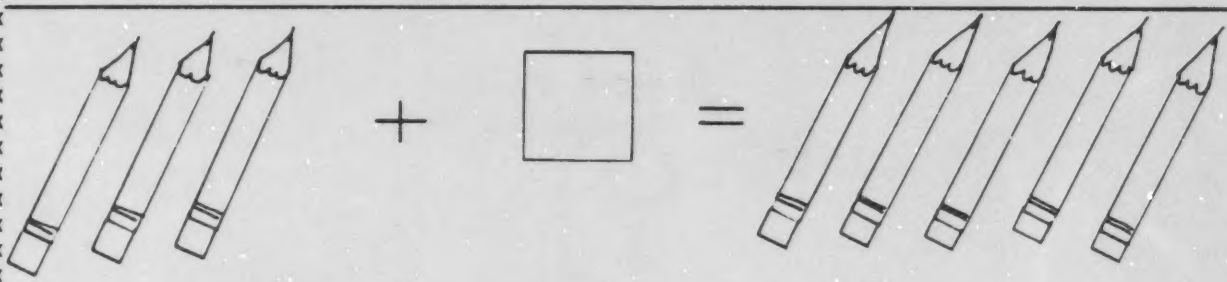
NAME: _____ CLASS: _____ DATE: _____

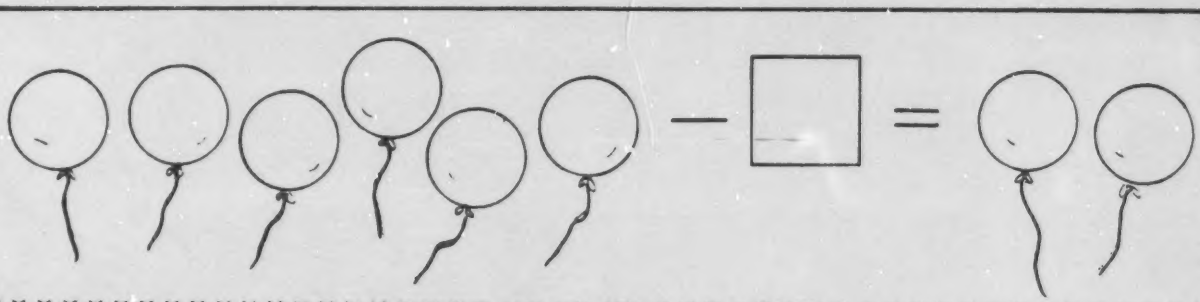
Write the open number sentence for each group.



2 + ☐ = 4



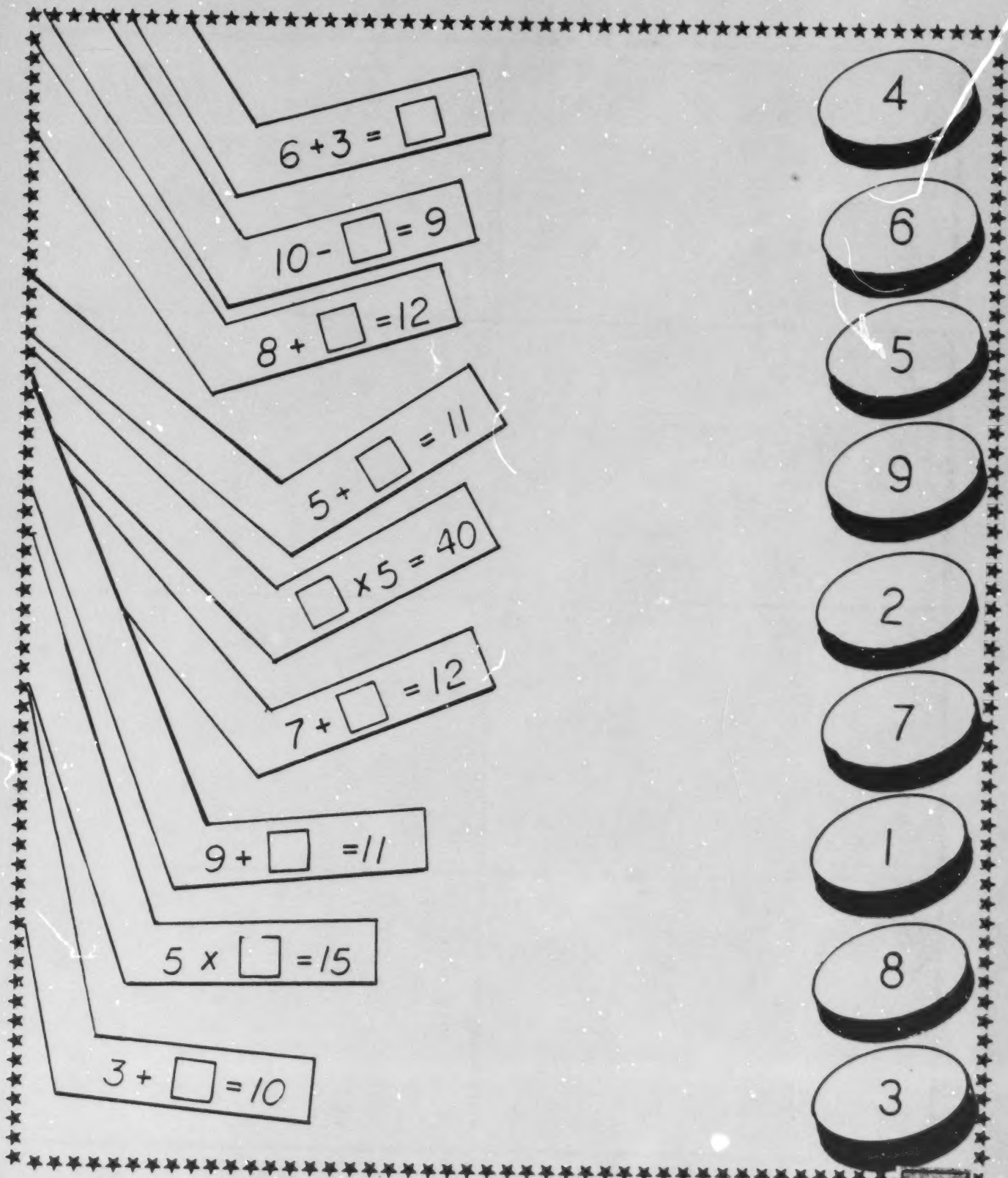




P.O. 3.11.01.02

NAME: _____ CLASS: _____ DATE: _____

Score a goal. Hit the puck with the hockey stick by matching the open sentence to the number that completes it.

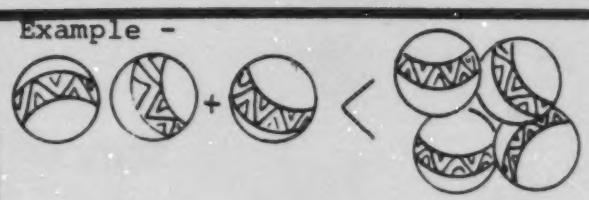


P.O. 3.11.02.01

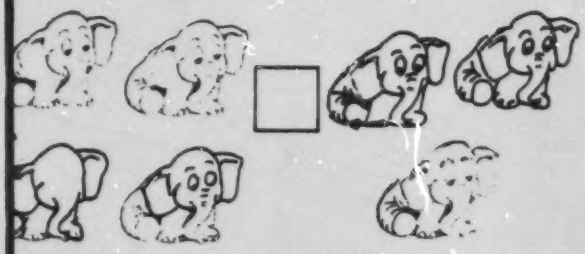
NAME: _____ CLASS: _____ DATE: _____

Complete each statement by using the symbols > or < .

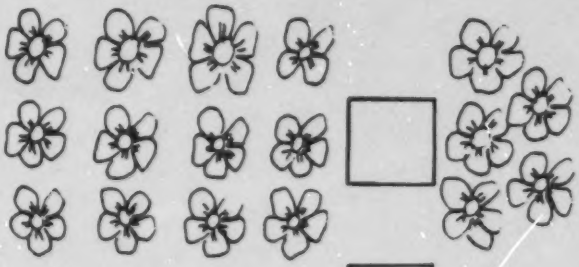
Example -



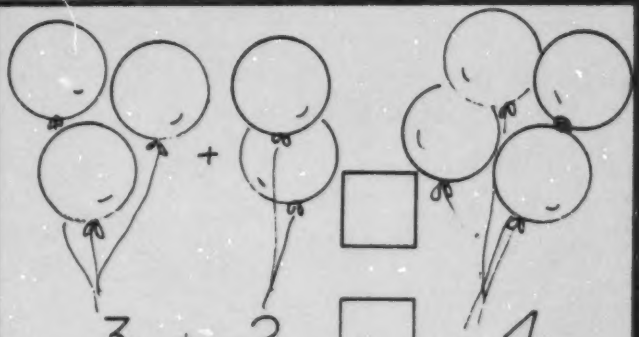
2 + 1 < 4



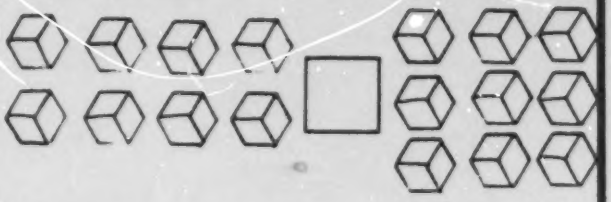
2 2 □ 3



3 × 4 □ 5



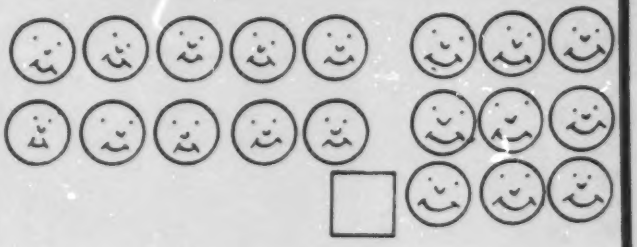
3 + 2 □ 4



2 × 4 □ 9

5 + 2 □ 8

30¢ + 10¢ □ 25¢



2 × 5 □ 9

P.O. 3.11.02.02

NAME: _____ CLASS: _____ DATE: _____

Find the solution set for each problem.

example:

$+4<10$

Solution set = {0, 1, 2, 3, 4, 5}

$\times 3>5$

Solution set = { }

$\times 4<8$

Solution set = { }

$+2>5$

Solution set = { }

$+8<11$

Solution set = { }

$\times 2<10$

Solution set = { }

$\times 4>16$

Solution set = { }

$+7<14$

Solution set = { }

$+5<12$

Solution set = { }

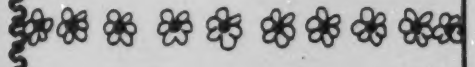
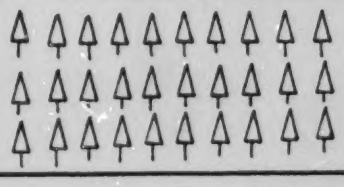
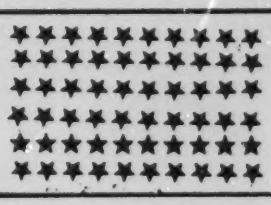
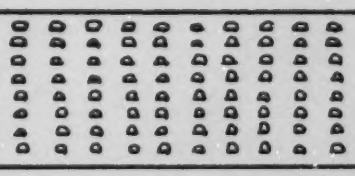
$\times 5<20$

Solution set = { }

P.O. 3.04.08.01

NAME: _____ CLASS: _____ DATE: _____

Complete the chart.

	$1 \times 10 = 10$	$\begin{array}{r} 10 \\ \times\ 1 \\ \hline 10 \end{array}$
	$2 \times 10 = 20$	
		
		$\begin{array}{r} 10 \\ \times\ 4 \\ \hline 40 \end{array}$
	$5 \times 10 = 50$	
		
		$\begin{array}{r} 10 \\ \times\ 7 \\ \hline 70 \end{array}$
		
	$9 \times 10 = 90$	

P.O. 3.04.08.02

NAME: _____ CLASS: _____ DATE: _____

1. Fill in the box.
2 & 3. Fill in the box and match.
4. Draw an array to show: 8 x 10; 10 x 8

1

$3 \times \square = 30$

$\square \times 3 = 30$

$\square \times 10 = 50$

$10 \times \square = 50$

$6 \times 10 = \square$

$\square \times 10 = 60$

2

$2 \times \square = 20$

$3 \times \square = 30$

$4 \times \square = 40$

$5 \times \square = 50$

$6 \times \square = 60$

3

$10 \times \square = 60$

$10 \times \square = 40$

$10 \times \square = 20$

$10 \times \square = 30$

$10 \times \square = 50$

4

P.O. 3.04.08.03

NAME: _____ CLASS: _____ DATE: _____

Redistribute the number sentences as shown.

$6 \times 20 = 6 \times (10 + 10)$

$(6 \times 10) + (6 \times 10)$

$60 + 60 = 120$

$5 \times 10 =$

3×30

2×40

4×50

7×40

P.O. 3.04.08.04

NAME: _____ CLASS: _____ DATE: _____

Solve the examples and use the key to break the code.

a	b	c
$\begin{array}{r} 40 \\ \times\ 2 \\ \hline 80 \end{array}$	$2 \times 20 =$	$\begin{array}{r} 50 \\ \times\ 2 \\ \hline \end{array}$
d	**e**	**f**
$\begin{array}{r} 40 \\ \times\ 3 \\ \hline \end{array}$	$\begin{array}{r} 20 \\ \times\ 2 \\ \hline \end{array}$	$\begin{array}{r} 70 \\ \times\ 2 \\ \hline \end{array}$
g	**h**	**i**
$2 \times 60 =$	$\begin{array}{r} 30 \\ \times\ 3 \\ \hline \end{array}$	$3 \times 20 =$

a	b	c	d	e	f	g	h	i
F								

Key

A = 40	F = 80	N = 100	T = 120
C = 60	I = 90	S = 140	

P.O. 3.04.09.01 -.02

NAME:_____ CLASS:_____ DATE:_____

Complete the multiplication table .
Find three patterns.

X	0	1	2	3	4	5	6	7	8	9	10
0	0										0
1		1								9	
2			4						16		
3				9				21			
4					16		24				
5						25					
6					24		36				
7				21				49			
8			16						64		
9		9								81	
10	0										100

COMPLETE THE MULTIPLICATION TABLE.

X X FIND THREE PATTERNS X X

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P.O. 3.12.02.01

NAME: _____ CLASS: _____ DATE: _____

Predict how many times heads or tails would come up if you tossed the coin 5 times.

	HEADS ?	TAILS
1		
2		
3		
4		
5		

Now toss the coin 5 times. Record your results.

	HEADS	TAILS
1		
2		
3		
4		
5		

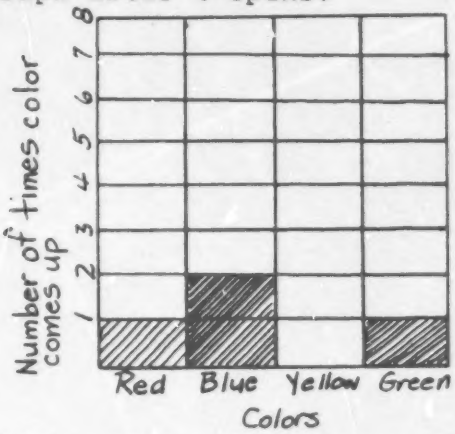
HOW CLOSE WAS YOUR PREDICTION?

P.O.3.12.02.02

NAME:_____ CLASS:_____ DATE:_____

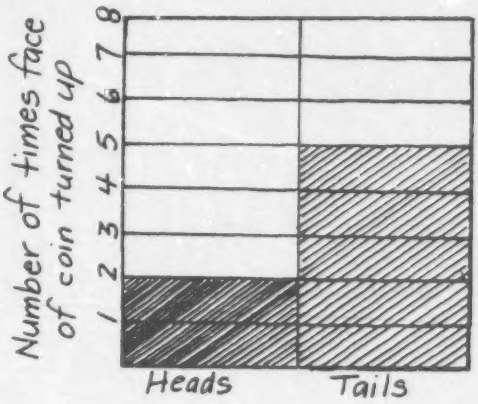
Guess the outcome of each event.

John and Mary are spinning a spinner with four colors. The spinner is divided into 5 parts. There are 2 blue sections and a section each of the other colors. John is making a graph to show how many times each color comes up. This is John's graph after 4 spins.



Which color will come up the most times after 10 spins? _____

Tom is tossing a coin. To keep track of the number of times each side of the coin turns up, Tom is making a graph. This is Tom's graph after tossing the coin 7 times.



Will more heads or tails turn up after 15 tosses? _____

Sue and Jane are drawing different color blocks from a bag. There are 2 red blocks, 4 blue blocks, 1 yellow block and 1 black block in the bag. Jane is keeping a tally of the number of times each color block is drawn from the bag. This is Jane's tally after 8 drawings.

Red	Blue	Yellow	Black
||	||||		||

Which color block will be drawn from the bag most after 20 times? _____

Mike is drawing marbles of different colors from a bag. There are 2 marbles of black and white and 1 marble of green. The marble is returned to the bag after each drawing. Mike is keeping a tally of the number of times that each color marble is drawn. His tally after 10 drawings is:

Black	Green	White	Yellow
||||	|	|||	||

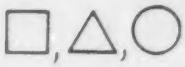
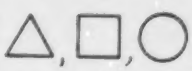
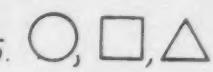
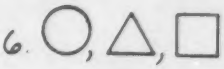
After 25 drawings, which color marble will be drawn the most times? _____

P.O. 3.12.03.01

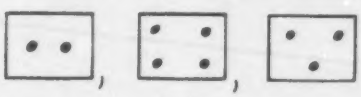
NAME: _____ CLASS: _____ DATE: _____

List and count the numbers of possible arrangements in each set. The first one has been done for you.

1.

1.
2. 
3.
4. 
5. 
6. 

2. T, W, O

3. 

4.

5. S, A, W

6.

P.O. 3.12.03.02

NAME: _____ CLASS: _____ DATE: _____

Use the data given to make a tree diagram. The first one is done for you.

1) Data: blue shirt, green shirt,
jeans, white pants

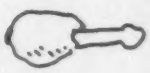
Shirt

Pants

blue — white
blue — jeans
green — white
green — jeans

2) Data: tuna fish, salami, turkey
white bread, whole wheat bread

Bread



Filling

3) Data: going home, going to school
roller skates, bicycle, skateboard

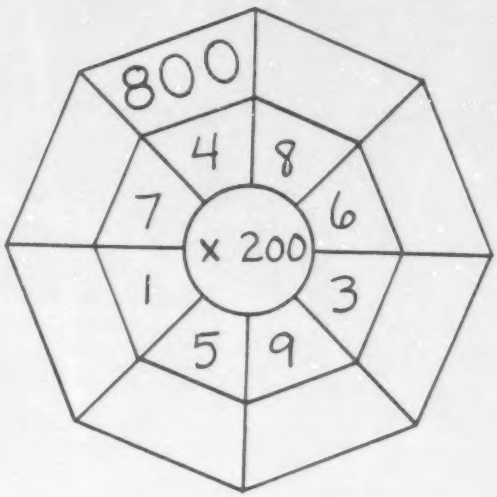
Destination

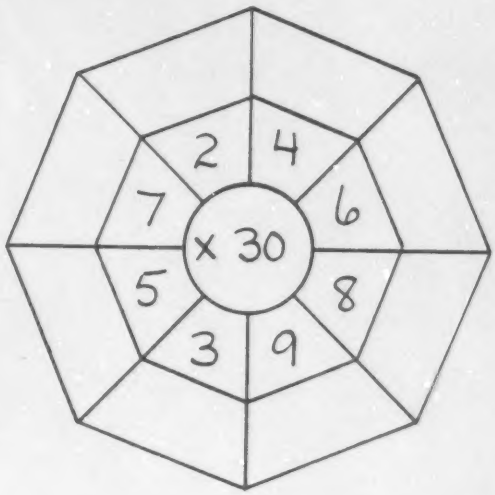
Transportation

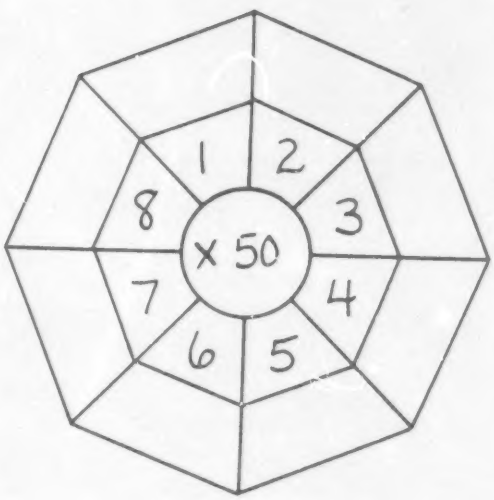
P.O. 3.04.10.01

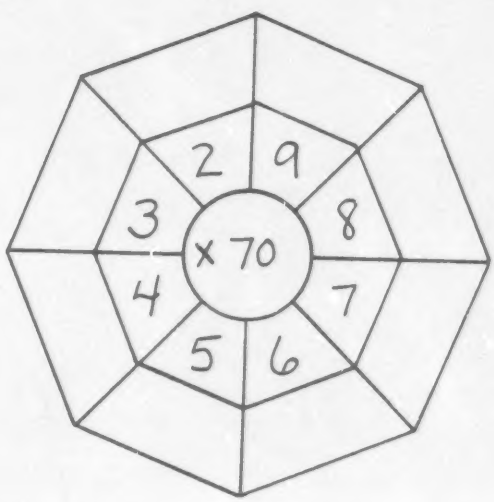
NAME: _____ CLASS: _____ DATE: _____

Fill in the missing boxes.
The center circle tells you the multiplier.









P.O. 3.04.10.02

NAME: _____ CLASS: _____ DATE: _____

Multiply.
Use the key to break the code.

42 × 2 = 48 Y	34 × 2 =	423 × 2
121 × 4 =	14 × 2	242 × 2 =
	33 × 3	

34 × 2	28 × 1	312 × 3	32 × 2

111 × 6	68 × 1	424 × 2

Key

A = 39	E = 64	J = 666	U = 846
B = 848	F = 68	N = 936	Y = 48
D = 484	I = 28	O = 68	

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P.O. 3.04.10.03

NAME: _____ CLASS: _____ DATE: _____

Solve each problem using both a horizontal and vertical number sentence.

There are 12 chairs in each row. If there are 4 rows, how many chairs will we need?

Work Space

$12 \times 4 = 48$

$$\begin{array}{r} 12 \\ \times\ 4 \\ \hline 48 \end{array}$$

There are 14 apples in each crate. If there are 2 crates, how many apples are there?

There are 13 fish in each tank. If there are 3 tanks, how many fish are there altogether?

If there are 11 people at each of 4 bus stops, how many people are there altogether?

If there are 12 joggers on each team and there are 3 teams, how many joggers are there?

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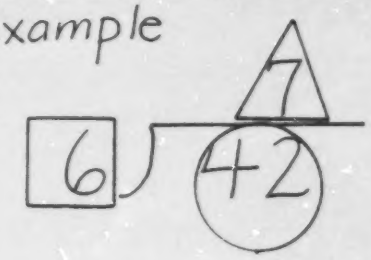
P.O. 3.05.06.01

NAME:_____ CLASS:_____ DATE:_____

Put a circle around the dividend (○). Put a box around the devisor (□). Put a triangle around the quotient (△).

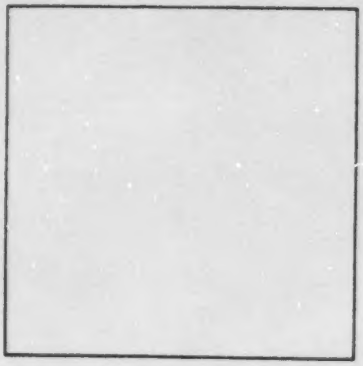
Example 	$36 \div 6 = 6$
$9\overline{)54}$ 6	$\frac{35}{7} = 5$
$18 \div 6 = 3$	$\frac{21}{7} = 3$
$81 \div 9 = 9$	$\frac{7}{7} = 1$
$8\overline{)64}$ 8	$5\overline{)20}$ 4

P.O. 3.05.06.02-03

NAME: _____ CLASS: _____ DATE: _____

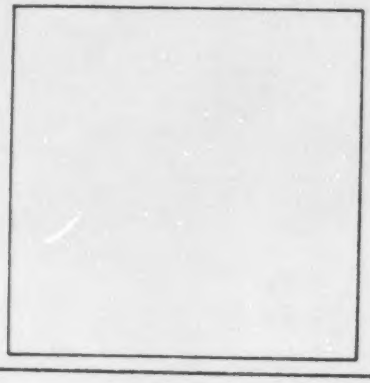
Estimate the number of places in the quotient. Then estimate the quotient.

$2\overline{)128}$ Number of places____



Think Box

$4\overline{)268}$ Number of places____



Think Box

$9\overline{)225}$ Number of places____

Think Box

P.O. 05.07.01

NAME: _____ CLASS: _____ DATE: _____

Work each problem. Match the problem with its answers. Write the letter of the answer above its number for a secret message.

Be a division dectective.

1) $4\overline{)48}$

2) $2\overline{)28}$

3) $6\overline{)42}$

4) $3\overline{)63}$

5) $3\overline{)60}$

6) $2\overline{)46}$

7) $2\overline{)26}$

8) $9\overline{)72}$

9) $4\overline{)80}$

10) $7\overline{)77}$

11) $8\overline{)40}$

12) $3\overline{)36}$

13) $8\overline{)88}$

14) $3\overline{)66}$

15) $9\overline{)90}$

16) $4\overline{)88}$

17) $9\overline{)99}$

18) $2\overline{)40}$

N	8
O	14
V	1
Y	12
D	11
L	21
T	5
R	13
U	7
I	22
E	20
A	23

_____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____

1 2 3 4 5 6 7 8 9 10 11 12

_____ _____ _____ _____ _____ _____ !

13 14 15 16 17 18

P.O. 3.05.07.02

NAME: _____ CLASS: _____ DATE: _____

Divide.

1) $5\overline{)505}$

2) $3\overline{)363}$

3) $7\overline{)777}$

4) $3\overline{)539}$

5) $5\overline{)844}$

6) $8\overline{)880}$

7) $9\overline{)999}$

8) $2\overline{)486}$

9) $6\overline{)660}$

10) $2\overline{)624}$

11) $4\overline{)488}$

12) $2\overline{)826}$

P.O. 3.05.07.03

NAME:_____ CLASS:_____ DATE:_____

Solve.

Mother had 400 pennies in a jar. She divided them into 4 equal groups. How many pennies were in each group?

$4\overline{)400}$

There were 606 crayons in one large container. Mrs. Smith decided to divide them equally and put them in 6 smaller containers. How many crayons were in each container?

Sue baked 55 choclate chip cookies. She put them into 5 baskets. How many cookies were in each basket?

Tom had 990 baseball cards. He divided them into 9 equal piles. How many were in each pile?

P.O. 3.02.05.01

NAME: _____ CLASS: _____ DATE: _____

In order to complete each addition box, add the numbers across, and the place value columns down.

3000	400	50	9	
1000	200	40	1	

4000	600	60	8	
2000	500	50	3	

5000	700	90	5	
2000	100	30	5	

1000	800	60	7	
4000	300	30	4	

P.O. 3.02.05.02

NAME: _____ CLASS: _____ DATE: _____

Line up each example. Add and check.
Use the code to find the secret message.

1. 3402 + 78 + 123 + 15 =

	check
3402	15
78	123
123	78
15	3402

2. 235 + 7210 + 503 + 12 =

3. 95 + 1053 + 757 + 9 =

4. 123 + 7831 + 4206 + 17 =

5. 1032 + 8 + 615 + 23 =

6. 673 + 92 + 821 + 4625 =

7. 3 + 995 + 1059 + 67 =

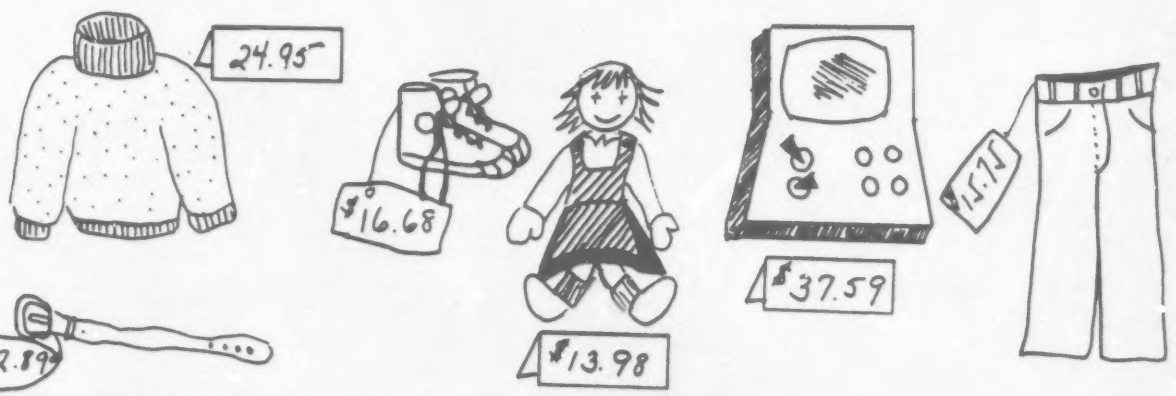
7960	6411	3618	12177	2124	1914	1678
I	O	R	H	N	G	T

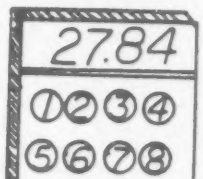
1	2	3	4	5	6	7

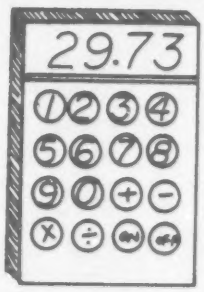
P.O. 3.02.05.03

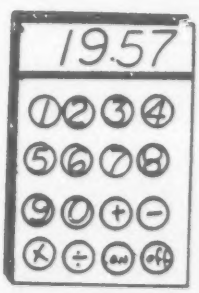
NAME: _____ CLASS: _____ DATE: _____

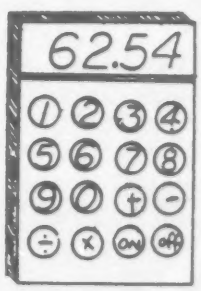
Read the amount on the calculator.
Look at the prices of the items.
Find two items to buy with prices that total the amount on the calculator.

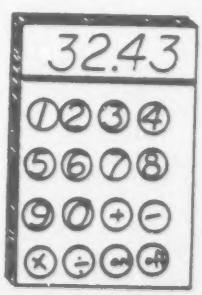


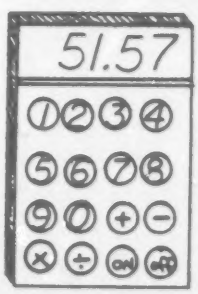










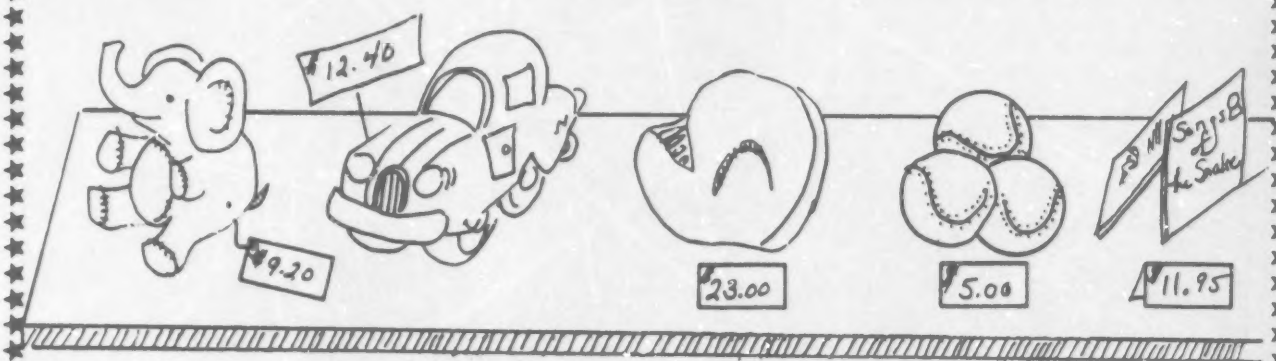


159

P.O. 3.02.05.04

NAME: _____ CLASS: _____ DATE: _____

Make up your own problem.



You have learned how to solve addition problems. Make up some problems of your own. Be sure you can solve the problems that you make up!

The picture shows some toys and their prices. Use the facts in the picture to make up addition problems. The first one is done.

1. Ann bought one album and one game. How much money did she spend in all?

2. Another addition problem:

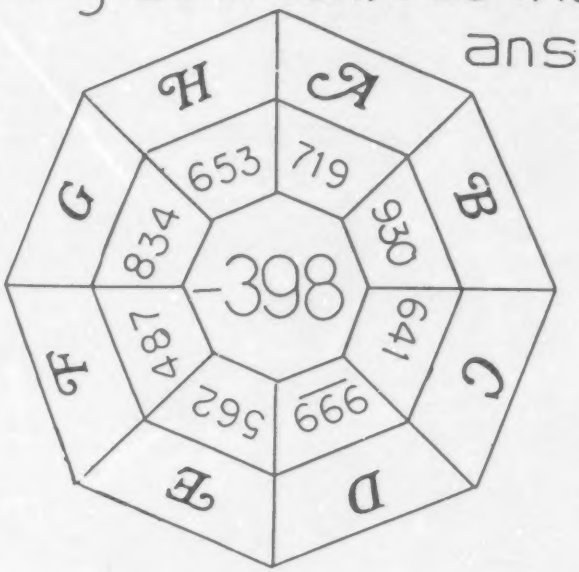
3. Another addition problem:

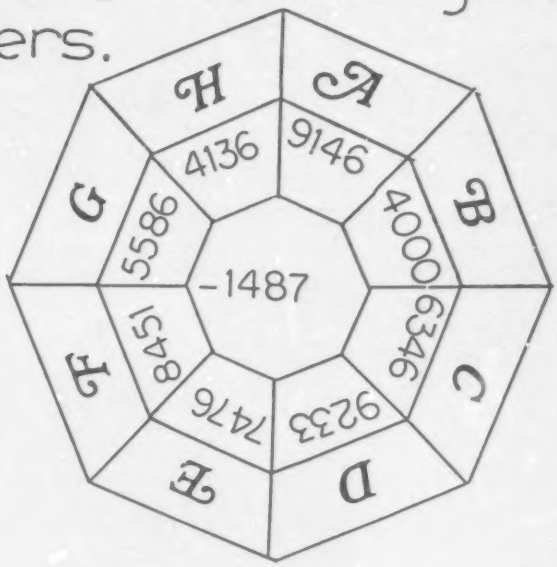
P.O. 3.03.03.01

NAME: _____ CLASS: _____ DATE: _____

Subtract and check your answers by using addition.
Use the letters to label your answers.
Make sure you subtract the smaller number from the larger number.

Subtract and check your answers by using addition. Use the letters to label your answers.





A. 719
-398

E

B

F

C

G

D

H

A. 9146
-1487

E

B

F

C

G

D

H

P.O. 3.03.03.02

NAME: _____ CLASS: _____ DATE: _____

Subtract the sale price from the original price of each item.
How much money can you save?

ITEM	EXAMPLE	MONEY SAVED
	$1 14 9 10 $2~~5~~.ØØ −17.85 $ 7.15	$7.15

P.O. 3.03.03.03

NAME: _____ CLASS: _____ DATE: _____

Subtract and check your answer by making a separate addition. example. Study this example.

EXAMPLE	rename hundreds	rename tens	subtract	check
	4 10	4 9 10	4 9 10	
500	~~5~~ 0 0	~~5~~ 0 ~~0~~	~~5~~ 0 ~~0~~	354
-146	-146	-146	-146	+146
			354	500

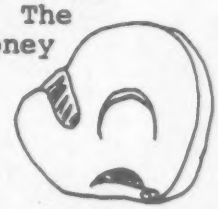
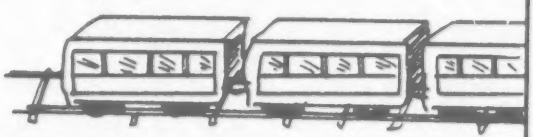
Example	Check
① 500 -195	
② 800 -123	
③ 300 -222	
④ 400 -216	

Example	Check
⑤ 6000 -2987	
⑥ 9000 -6432	
⑦ 4000 -1996	
⑧ 7000 -4978	

P.O. 3.03.03.04

NAME: _____ CLASS: _____ DATE: _____

Solve each problem.
Subtracting money is the same as subtracting numbers.
* Remember to use $ and . in your answer.

	WORK HERE
John is saving his money to buy a baseball glove. He has already saved $4.50. The glove costs $9.99. How much more money does John have to save? 	
Mary wants to buy her mother a birthday present. The dress she wants costs $22.50. Mary has saved $15.99. How much more money does Mary need?	
Michael is going on a trip. The train ticket costs $23.99. Michael pays the ticket person $30.00. How much change should he get back? 	
Sally went to the fruit store for her mother. She bought apples, oranges, bananas and grapes. The total cost for the fruit was $8.16. She paid the storekeeper with $10.00. How much change did she get back?	
Tom wants to buy a toy that costs $8.99. He has already saved $3.59. How much more does Tom have to save?	

P.O. 3.10.07.01

NAME: _____ CLASS: _____ DATE: _____

I. Fill in the blanks with the correct metric measure.
II. Write the measure you would use for each item. Meters, centimeters, kilometers.

I

100 _____ = 1 _____

1 _____ = 1000 _____

10 _____ = 1 _____

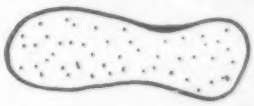
II

1. The length of a pencil _____
2. The distance from your house to another state _____
3. The length of the classroom _____
4. The height of a tree _____
5. The height of your chair _____
6. The length of a text book _____
7. The length of your finger _____
8. The speed you travel on a highway _____
9. The distance between New York and Chicago _____
10. The length of a leaf _____

P.O. 3.10.07.02

NAME: _____ CLASS: _____ DATE: _____

Circle the metric measure you would use to measure each item.
Remember to choose the measure which is the most accutate.

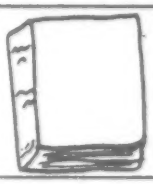


cm mm

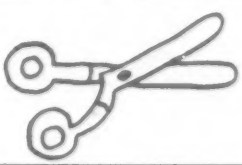
cm mm

cm mm

cm mm



cm mm



cm mm

cm mm

cm mm

cm mm

168

P.O. 3.09.05.01

NAME: _____ CLASS: _____ DATE: _____

Cut out cards on the dotted lines. Fasten together.
Complete activities on each card.

Card #1

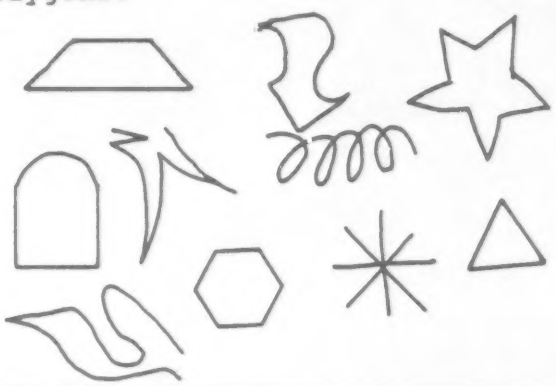
POLYGONS

Card #2

Circle all polygons

Card #3

Circle those that are <u>not</u> polygons.



Card #4

Draw any polygon.

Card #5

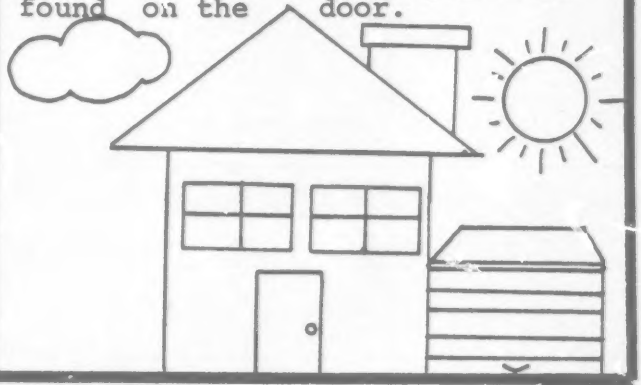
Complete each statement with a word from the word box.

polygon simple closed curve line segments

1. A polygon must be a _____.
2. Polygons are made up entirely of _____.
3. This shape is a _____.

Card #6

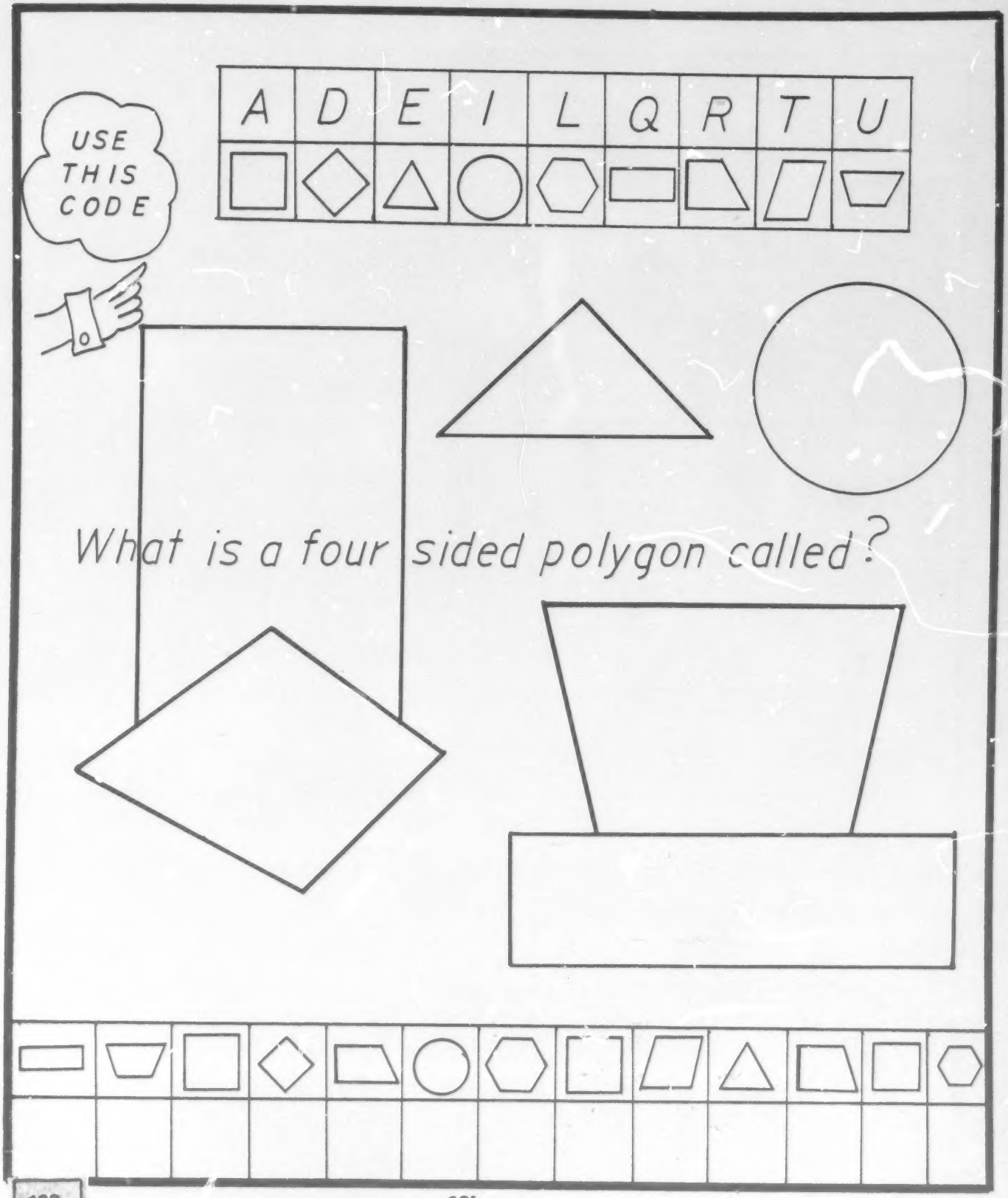
Circle all of the polygons you can find in this house. Write Write the total number you have found on the door.



P.O. 3.09.05.02

NAME: _____ CLASS: _____ DATE: _____

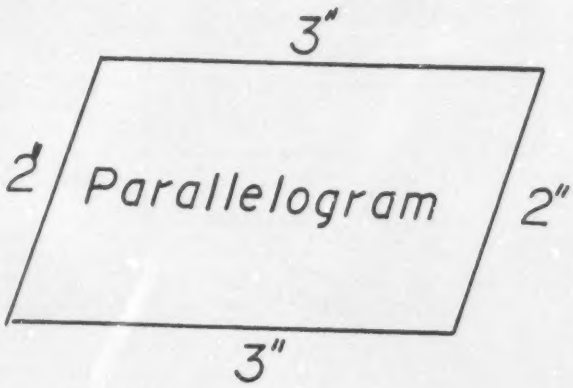
Match the shapes to find the answer. "What is a four sided polygon called?"



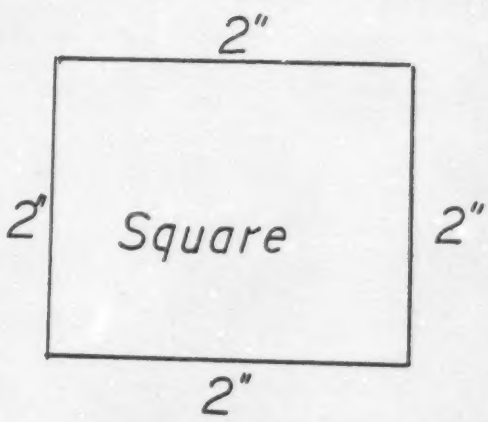
P.O. 3.09.05.03

NAME: _____ CLASS: _____ DATE: _____

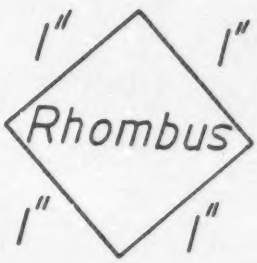
Find the perimeter.



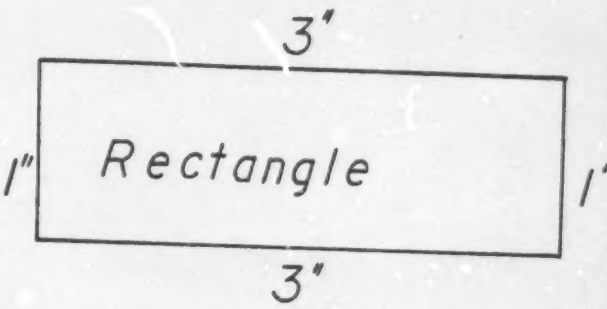
Perimeter is _____



Perimeter is _____

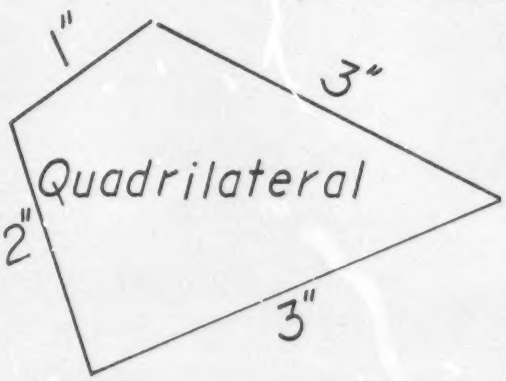


Perimeter is _____



Perimeter is _____

Perimeter is _____



Perimeter is _____

P.O. 3.07.01.01

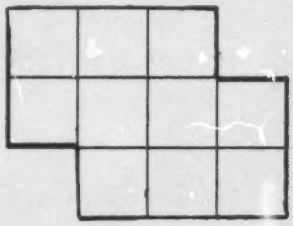
NAME: _____ CLASS: _____ DATE: _____

Follow the directions under each figure.

1

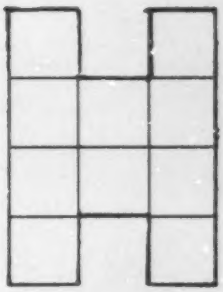
COLOR .2 GREEN

4



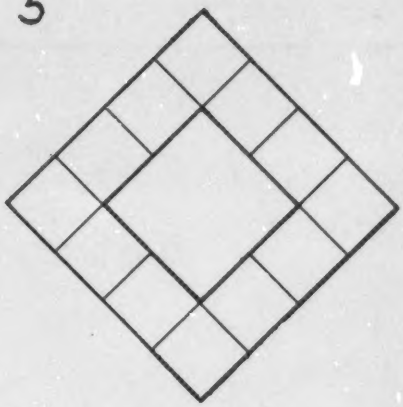
COLOR .9 ORANGE

2



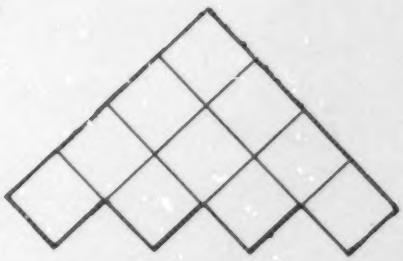
COLOR .7 BLUE

5



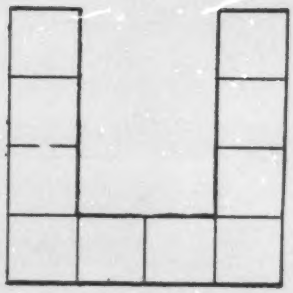
COLOR .5 PURPLE

3



COLOR .4 RED

6



COLOR .8 YELLOW

170

P.O. 3.07.01.02

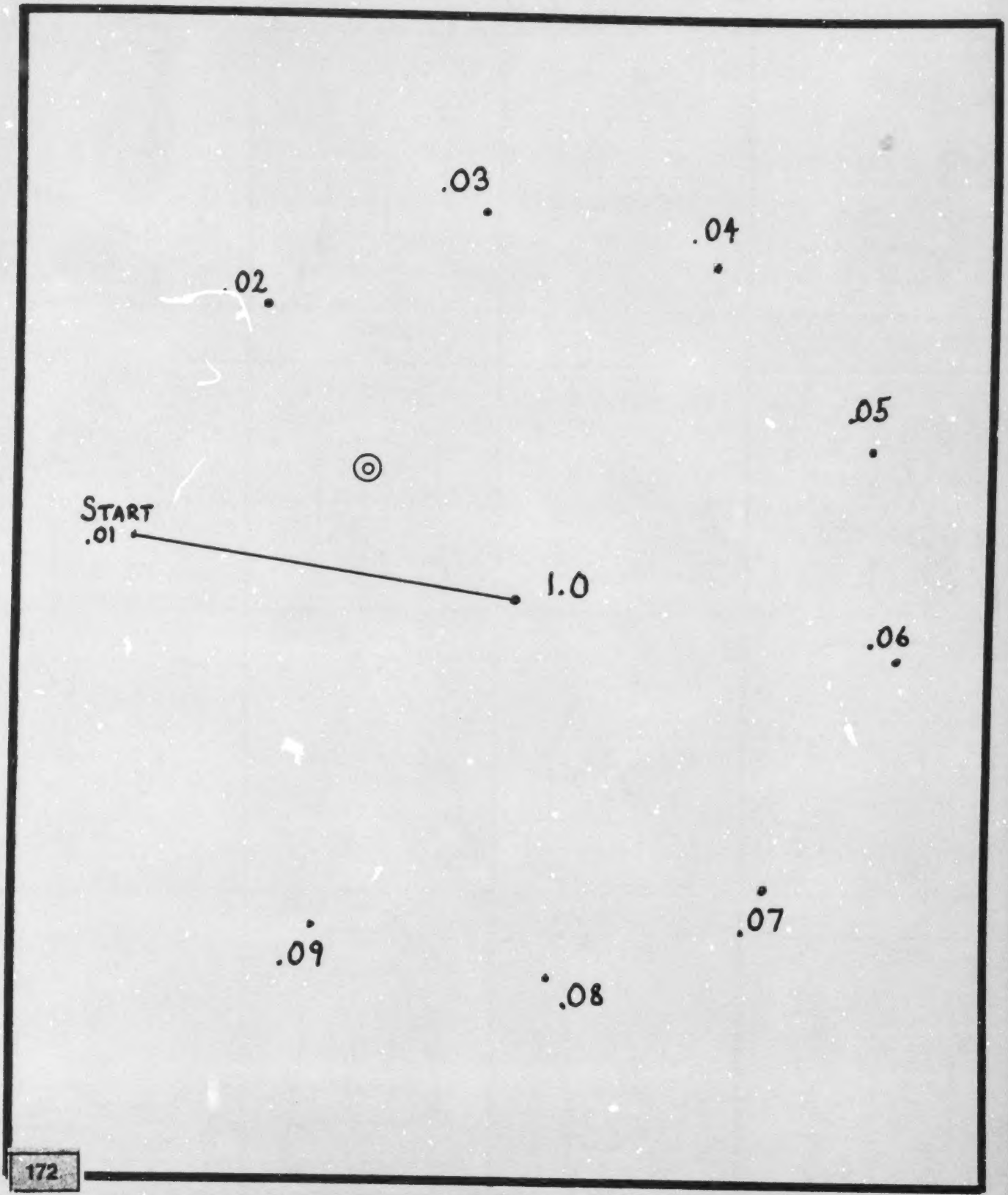
NAME: _____ CLASS: _____ DATE: _____

Draw a line from the clown to his matching hat.

P.O. 3.07.01.03

NAME: _____ CLASS: _____ DATE: _____

Count by tenths and connect the dots. Color the picture.



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P.O. 3.13.03.01

NAME: _____ CLASS: _____ DATE: _____

How many ways can you show 50¢ without using pennies.

How many ways can you show 50¢ without using pennies?

50¢	25¢	10¢	5¢
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			

173

P.O. 3.13.03.02

NAME: _____ CLASS: _____ DATE: _____

Read and solve each problem.
Use another sheet for your charts if you have more space.

1. Fill in a chart like the one below to help you find how many ways you can make 25¢ using dimes, nickels, and pennies.

Dimes				
Nickles				
Pennies				
Total				

2. Using a similar chart, show how many ways you can show 35¢.

3. Draw a chart to solve. If 1 rabbit can run 50 miles and 2 rabbits can run 100 miles. How many miles can 15 rabbits run? 22 rabbits?

4. The book store is having a sale. The books are packaged in bundles of 3. Complete the table below to find the cost of 9 books, 12 books and 15 books.

Books	3	6	9	12	15
Price	$2.15	$5.10			

5. Set up a table to show how much 3 oranges would cost if 18 cost $1.20 and 15 cost $1.00.

6.

JULY

Sun.	Mon.	Tues.	Wed.	Thurs.	Fri.	Sat.
						5
				31		

1. Fill in the missing days.
2. On what day will August 1 be?
3. What date is 2 weeks after July 6?
4. What day was June 30?

P.O. 3.13.03.03

NAME: _____ CLASS: _____ DATE: _____

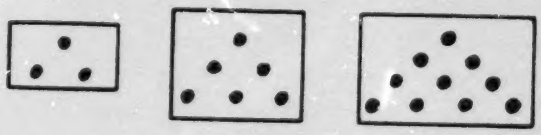
Write 2 questions for each set of information or chart.

number of apples	1	3	5	8		
cost	20¢	60¢	$1.00	$1.60		

Sun.	Mon.	Tues.	Wed	Thurs	Fri.	Sat.
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28

We saw 4 bears, 17 ducks and 6 lions at the zoo.

Pennies	5	0	0	0
Nickels	5	10	6	4
Dimes	2	0	2	3
Total	50	50	50	50



P.O. 3.10.08.01

NAME: _____ CLASS: _____ DATE: _____

Circle the unit you would use to find how much liquid is in each container.

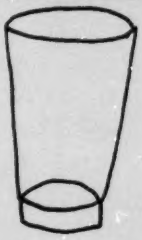
Eye dropper

milliliter liter

milliliter liter

Paint

milliliter liter



milliliter liter

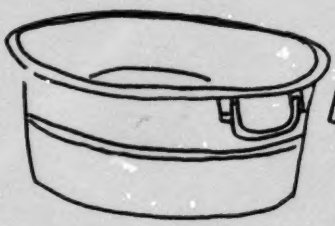
Coffee pot

milliliter liter

milliliter liter

Medicine

milliliter liter



Basin

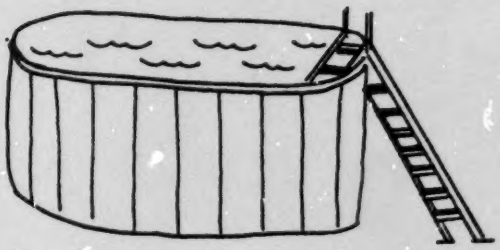
milliter liter

P.O. 3.10.08.02

NAME: _____ CLASS: _____ DATE: _____

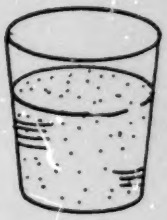
I. Draw a line from the picture to the unit you would use to measure each item.

II. Fill in the blanks.



milliliters

kiloliters



liters

Fill in the blanks

1 liter = ____ centiliters

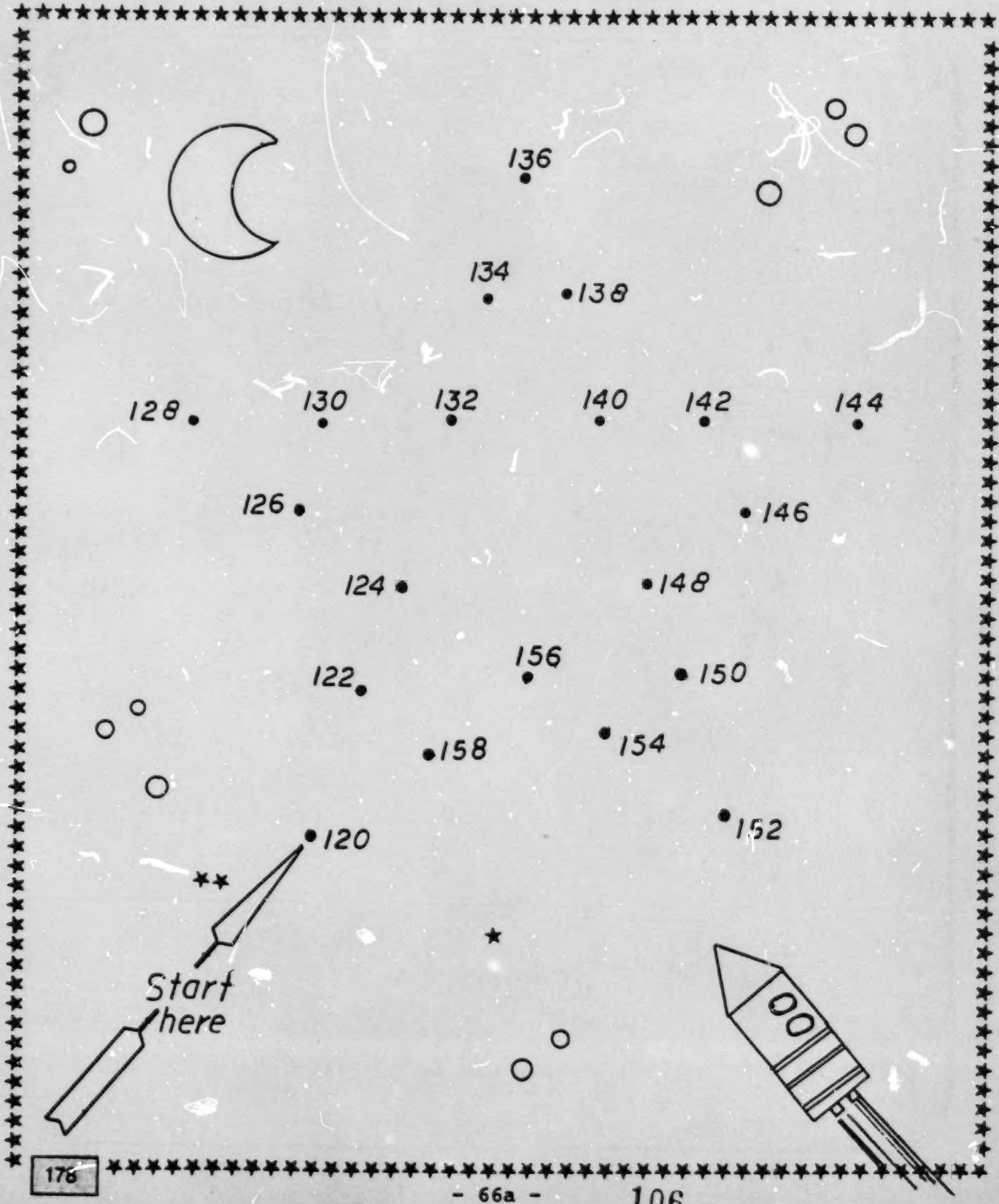
____ liter = 1000 milliliters

1 kiloliter = 1000 _____

P.O. 3.01.04.01

NAME: _____ CLASS: _____ DATE: _____

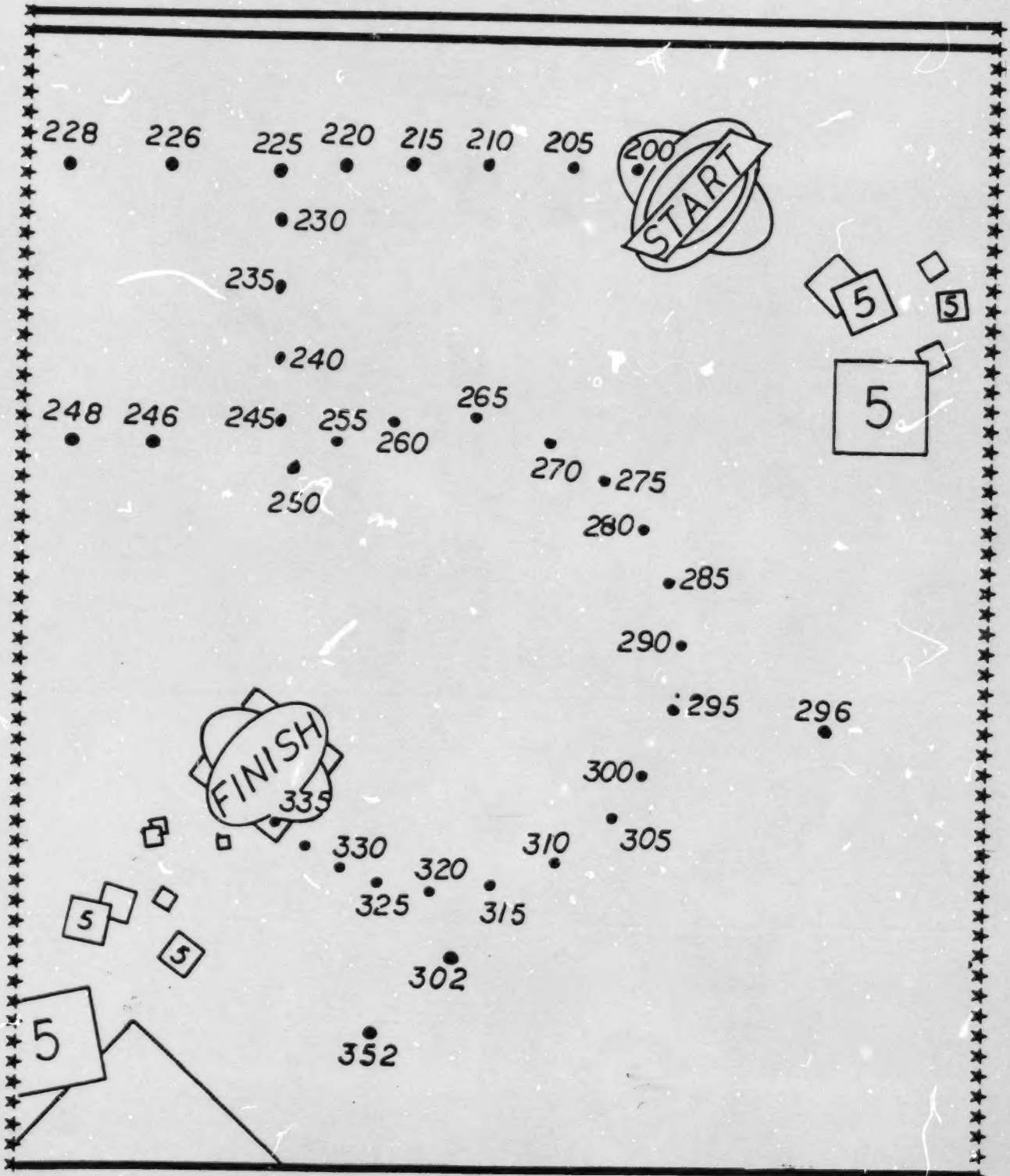
Connect the dots counting by two to see the picture.



P.O. 3.01.04.02

NAME: _____ CLASS: _____ DATE: _____

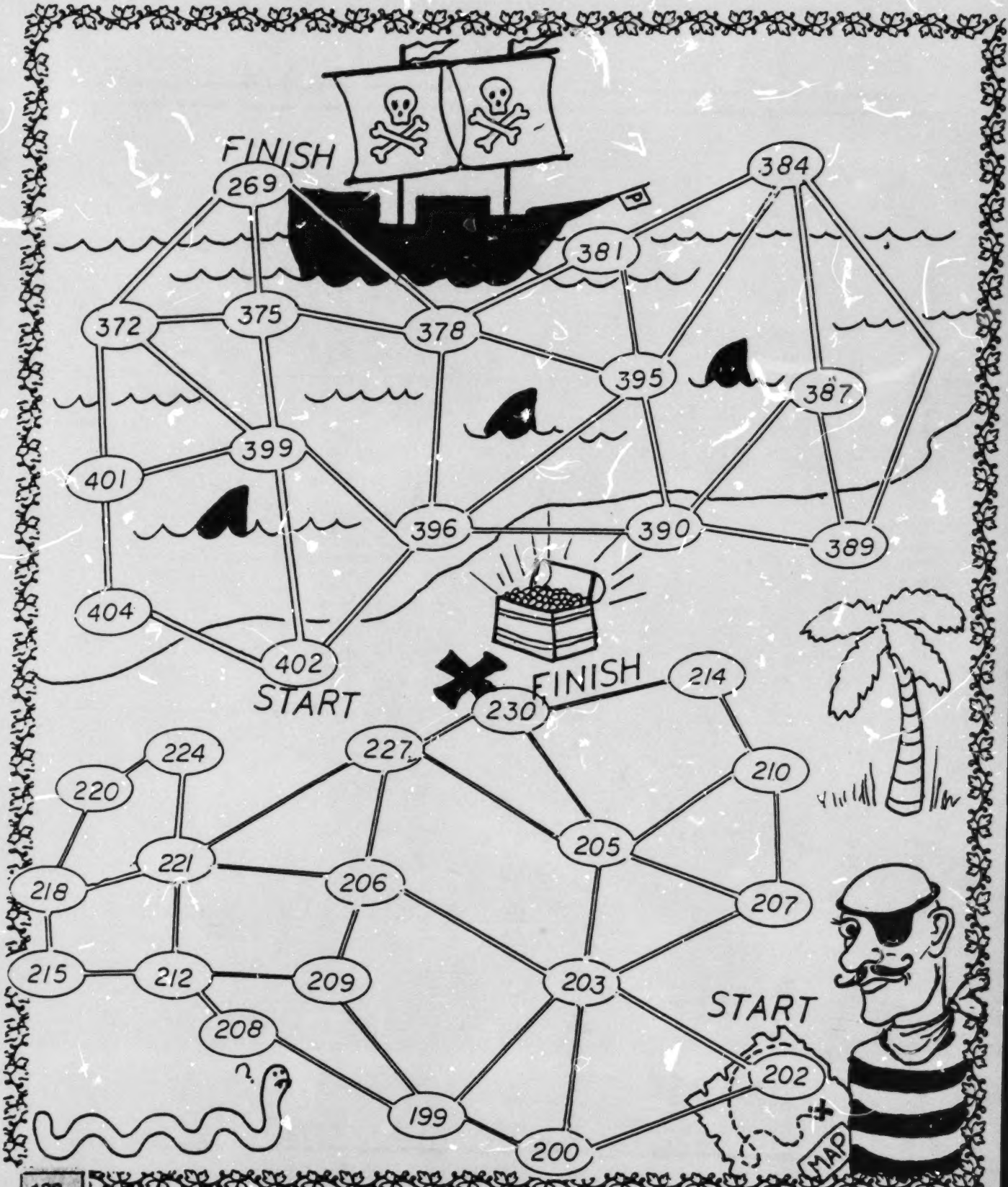
Connect the dots counting by fives.



P.O. 3.01.04.03

NAME: _____ CLASS: _____ DATE: _____

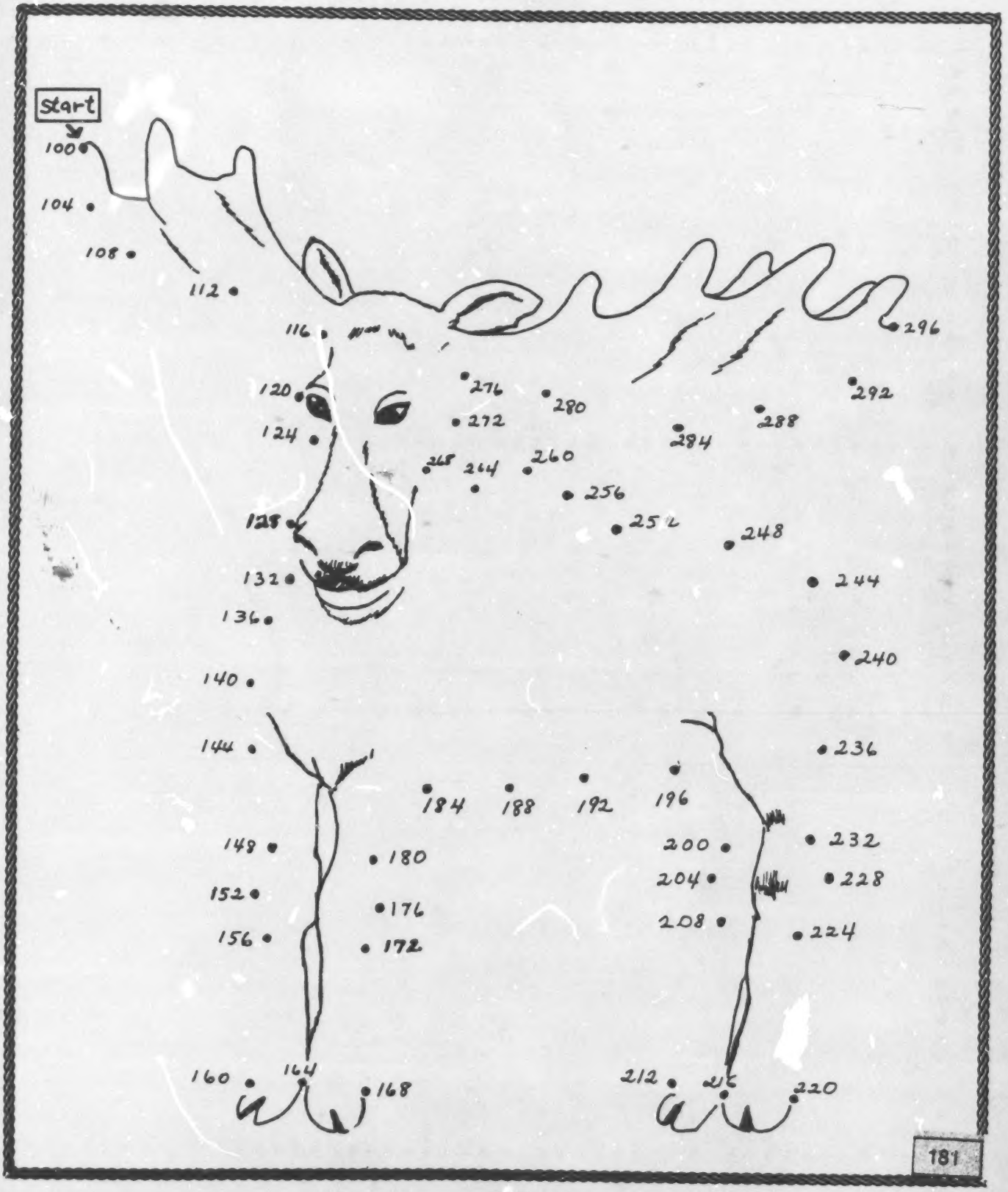
To help the pirate find the treasure count forwards by three.
To help him carry it to his ship count backward by three.



P.O. 3.01.04.04

NAME: _____ CLASS: _____ DATE: _____

Start at 100 and connect the dots counting by fours.



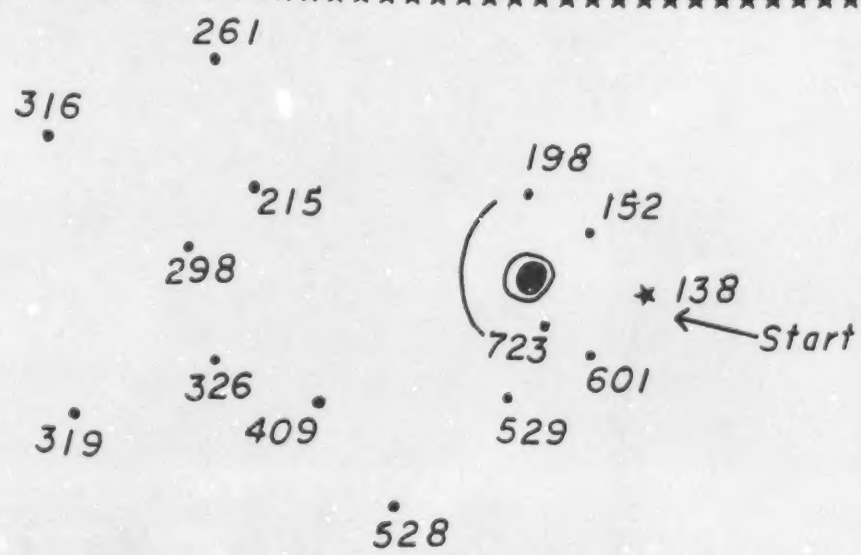
P.O. 3.01.05.01

NAME: _____ CLASS: _____ DATE: _____

I. Place these numbers in increasing numerical order.
II. Place these numbers in decreasing numerical order.
III. Connect the dots in increasing order.

A	287	412	356	747	123
	____	____	____	____	____
B	439	652	837	258	394
	____	____	____	____	____
C	187	307	287	145	302
	____	____	____	____	____

A	427	359	782	941	123
	____	____	____	____	____
B	296	458	979	148	723
	____	____	____	____	____

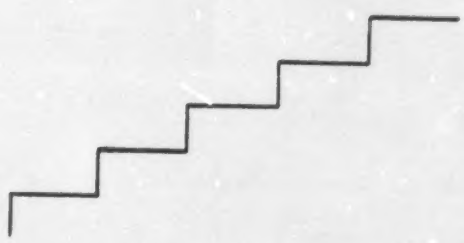


P.O. 3.01.05.02

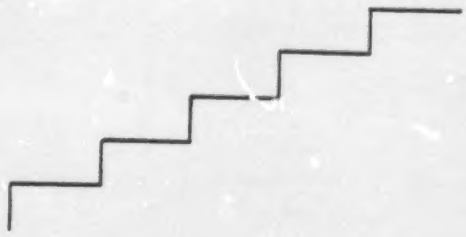
NAME: _____ CLASS: _____ DATE: _____

I. and II. Write these numbers in ascending order.
III. and IV. Write these numbers in descending order.

I



3,621 6,832 4,978 5,329 2,461

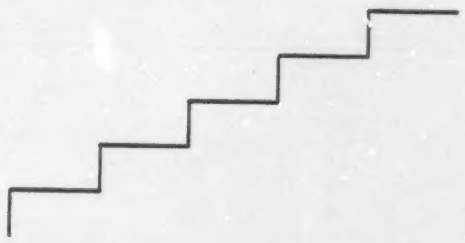


4,821 4,782 4,394 4,936 4,073

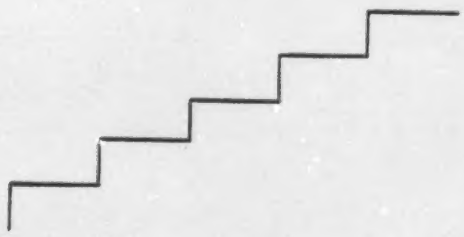
II

3,724	3,742	3,786	3,768	3,704
6,324	6,328	6,329	6,320	6,325

III



3,238 6,427 2,478 6,042 3,230



5,827 9,572 7,582 2,875 9,825

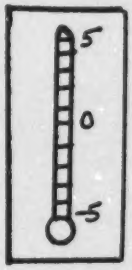
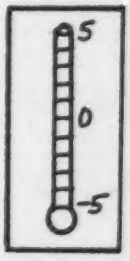
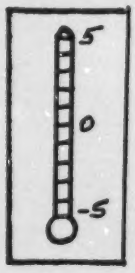
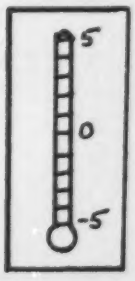
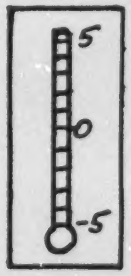
IV

3,947	3,974	3,982	3,904	3,912
4,683	8,739	4,680	8,732	4,682

P.O. 3 01 06 01

NAME:_____ CLASS:_____ DATE:_____

Read the temperature next to each thermometer.
Color in each thermometer to show the temperature.
The first one is done for you. Note: +3° is read as 3 degrees.

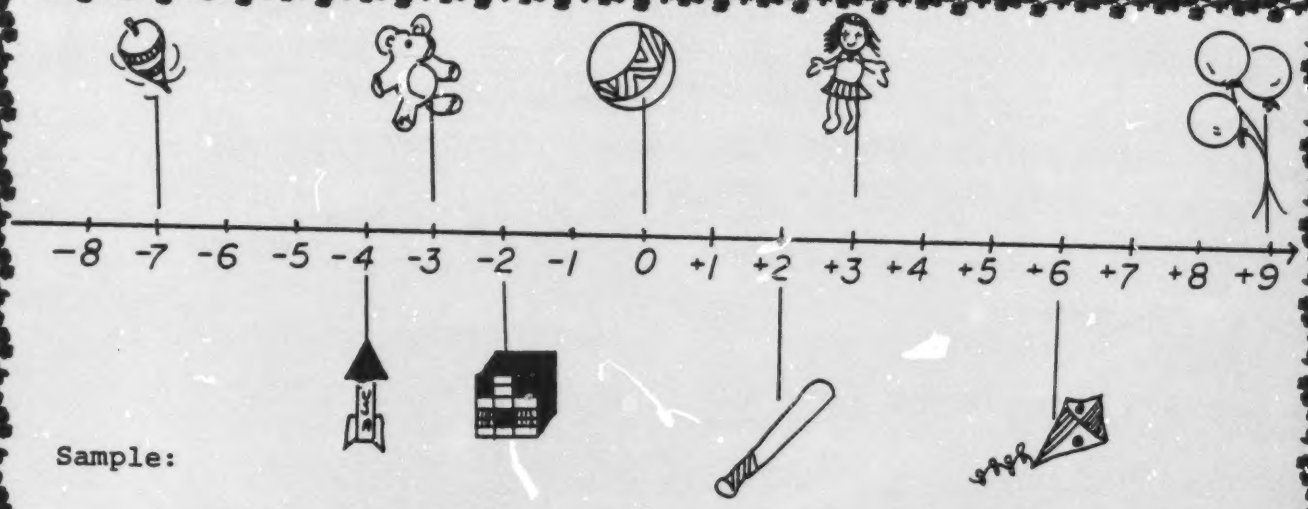
+2°	-3°
-2°	 -4°
 +5°	 +3°
 -5°	+4°
0°	 -1°

184

P.O. 3.01.06.02

NAME:_____ CLASS:_____ DATE:_____

Which toy does each child get?
Locate the point on the number line and you will find out.
The first one is done for you.



Sample:

Jerry's special number is -3. His toy is a teddy bear.

1. Peter's special number is -4. His toy is _____.
2. Carol's special number is +3. Her toy is _____.
3. Vanessa's special number is -7 Her toy is _____.
4. Kareem's special number is +2 His toy is _____.
5. Juan's special number is -2. His toy is _____.
6. Fran's special number is 9. Her toy is _____.
7. Billy's special number is 0. His toy is _____.
8. Carlos' special number is +6. His toy is _____.

P.O. 3.01.07.01

NAME:_____ CLASS:_____ DATE:_____

Write the Roman or Arabic numeral that has the same value as the number shown.

13	XIII	XXIV	24	18	____
19	____	XXXI	____	XXVIII	____
24	____	XIX	____	XVII	____
33	____	XXVII	____	14	____
32	____	XXX	____	38	____
26	____	XIV	____	16	____
15	____	XVIII	____	XVI	____
17	____	XXVI	____	XXXV	____
21	____	XXXIX	____	XXIII	____
39	____	XXXIV	____	22	____
27	____	XXI	____	31	____
23	____	XXII	____	39	____
20	____	XX	____	35	____
37	____	XIII	____	18	____
28	____	XXV	____	29	____
15	____	XXIV	____		
34	____	XXXIX	____		

P.O. 3.01.07.02

NAME:_____ CLASS:_____ DATE:_____

Solve each problem. Write your answer in Roman numerals. Show all work.

1. Frank had XXVIII marbles. He gave his sister VII marbles. How many marbles does he have left?

Work Space

2. Cheryl had XXXIX picture cards. XXI were left outside in the rain and they tore. How many good cards does Cheryl have left?

3. Mike has XVI fish in this tank. His dad is going to buy him V new fish. How many fish will Mike have in his tank with the new fish?

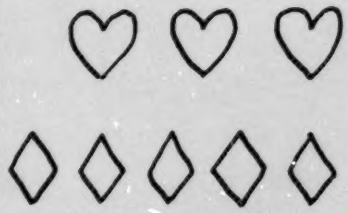
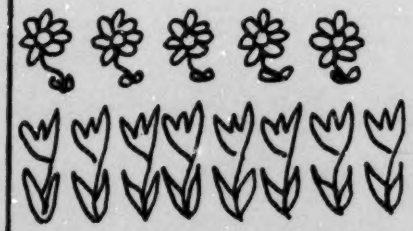
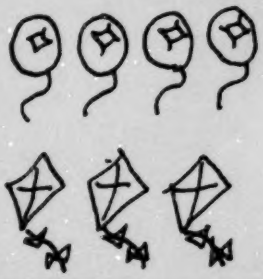
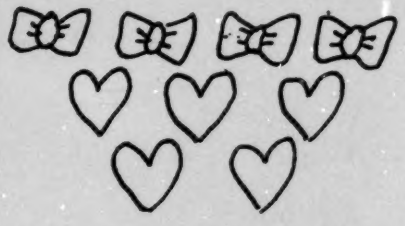
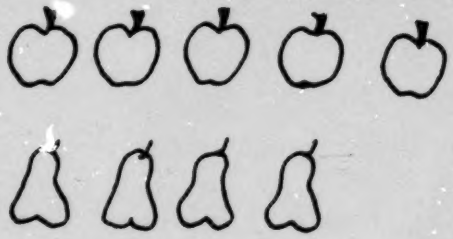
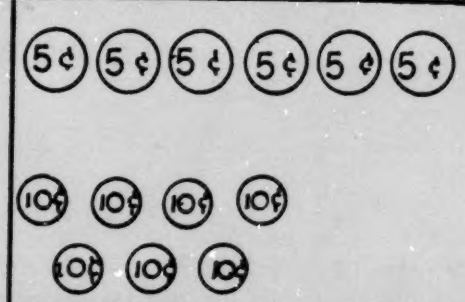
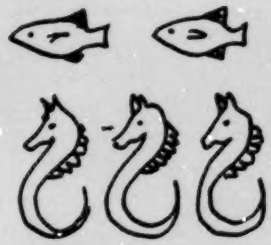
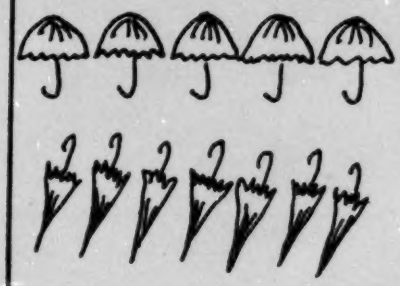
4. Sue has XV pencils in her desk and XVI pencils in her pencil case. How many pencils does Sue have in all?

187

P.O. 3.06.04.01

NAME: _____ CLASS: _____ DATE: _____

Write each example as a ratio.

SAMPLE  3 to 5 $\frac{3}{5}$	
	
	
	

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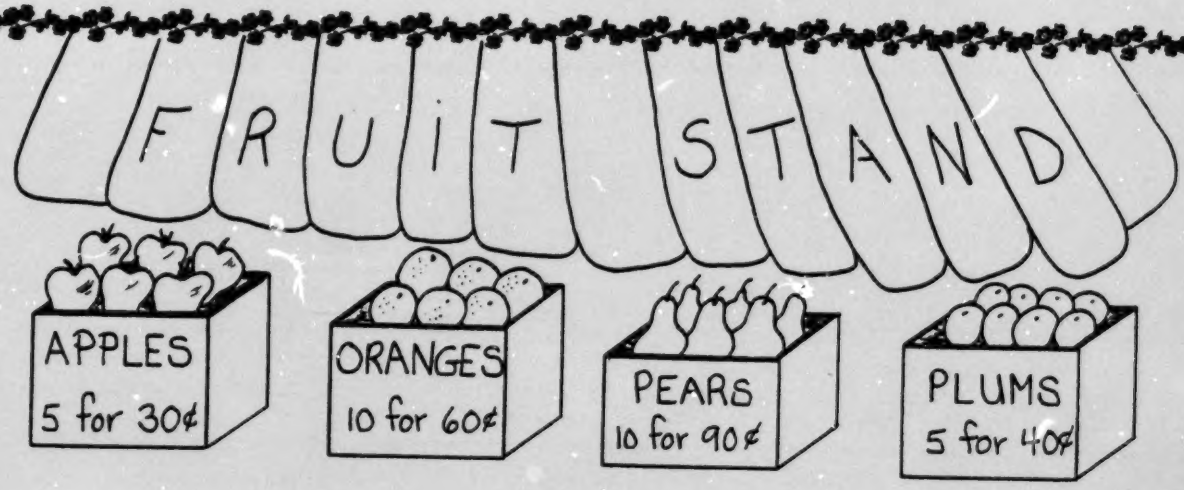
P.O. 3.06.04.02

NAME:_____ CLASS:_____ DATE:_____

Write a ratio for each problem and solve.

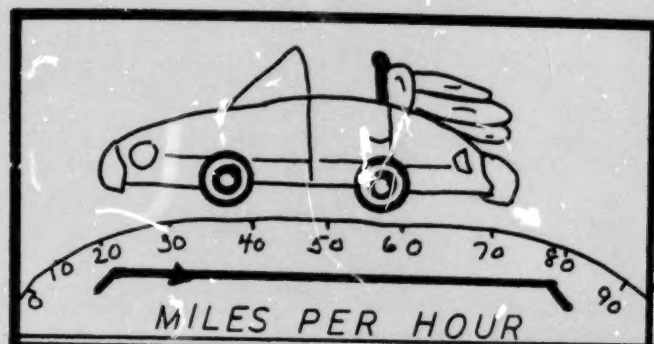


10 oranges cost 60¢. How much will 5 oranges cost?	Work Here
5 apples cost 30¢. How much does 1 apple cost?	
5 plums cost 40¢ How much will 10 plums cost?	
10 pears cost 90¢. How much will 1 pear cost?	
5 plums cost 40¢. How much does 1 plum cost?	

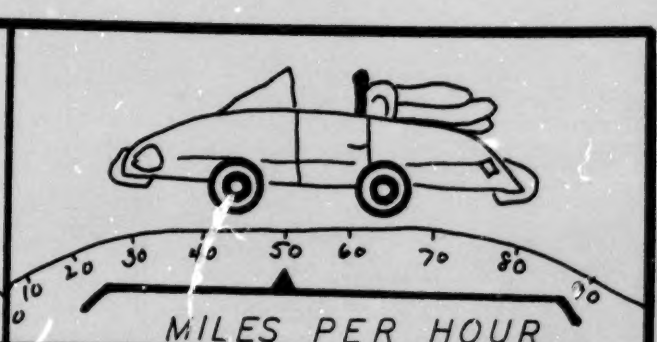
P.O. 3.10.09.01

NAME: _____ CLASS: _____ DATE: _____

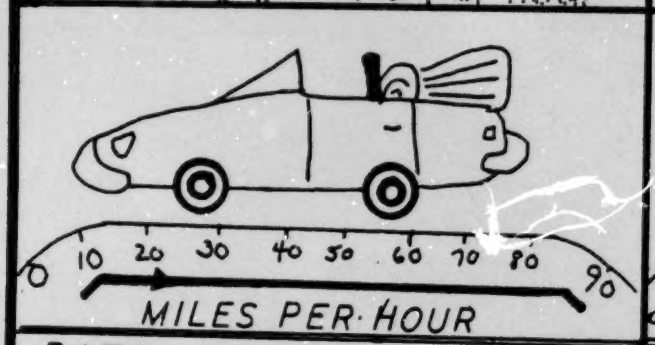
How fast is each car traveling?
Write the rate of each car.



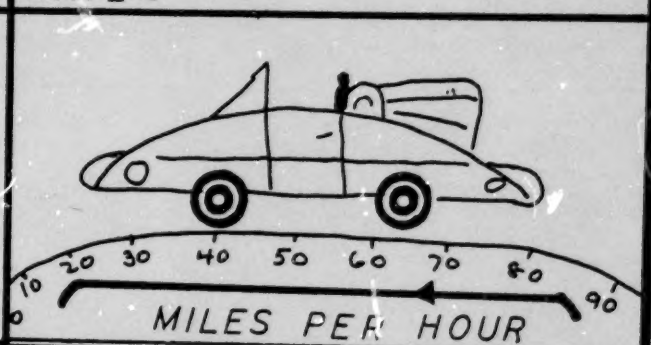
RATE = 30 miles per hour



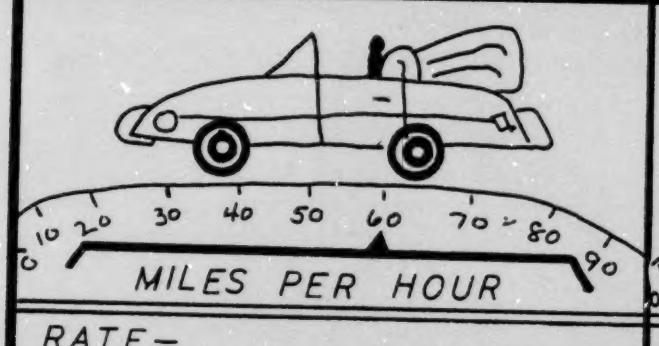
RATE =



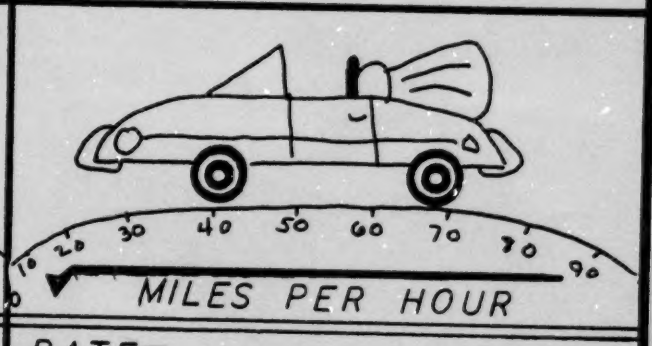
RATE =



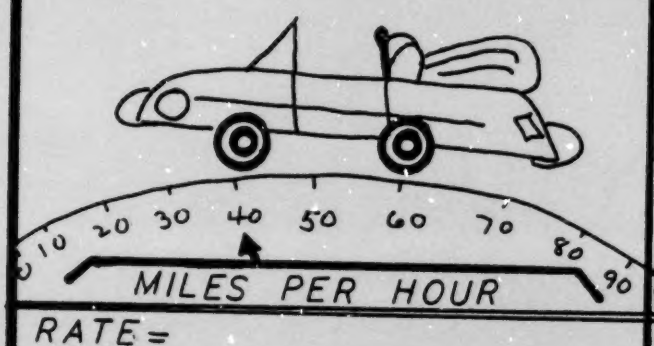
RATE =



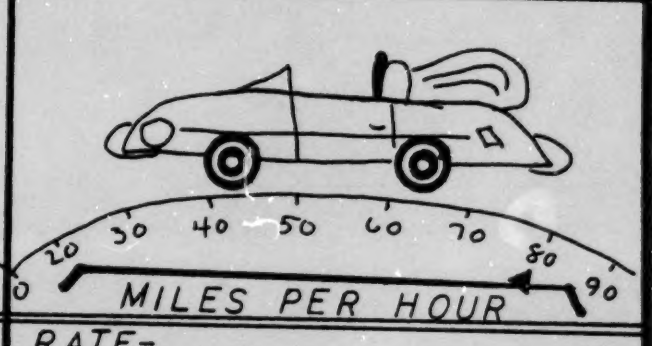
RATE =



RATE =



RATE =



RATE =

190

P.O. 3.10.09.02

NAME: _____ CLASS: _____ DATE: _____

Complete the table from the "All-Around Bus Company".
Find the number of hours that each bus traveled.

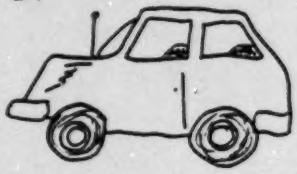
Bus Number	City Bus Leaves From	Time Bus Leaves	City Bus Arrives At	Time Bus Arrives	Hours Spent Traveling
23	New York City	1:00 P.M.	Trenton, N.J.	4:00 P.M.	
144	Miami	10:00 A.M.	Fort Lauderdale	2:00 P.M.	
216	Los Angeles	11:00 P.M.	San Diego	1:00 A.M.	
9	Houston	7:00 A.M.	Dallas	12 noon	
65	Albany	9:00 P.M.	New York City	12 midnight	
82	Phoenix	3:00 P.M.	San Diego	11:00 P.M.	
127	Richmond	4:00 P.M.	Norfolk	5:00 P.M.	

P.O. 3.10.09.03

NAME: _____ CLASS: _____ DATE: _____

Solve each problem.

Mary's mother drove 40 miles per hour for 3 hours. How far did Mary's mother drive?

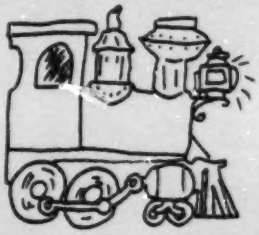


Work Here

John rode his bicycle at 10 miles per hour for 2 hours. How far did John ride his bicycle?

The plane traveled at 90 miles per hour for 6 hours. How far did the plane travel?

The train traveled at 60 miles per hour for 4 hours. How far did the train travel?



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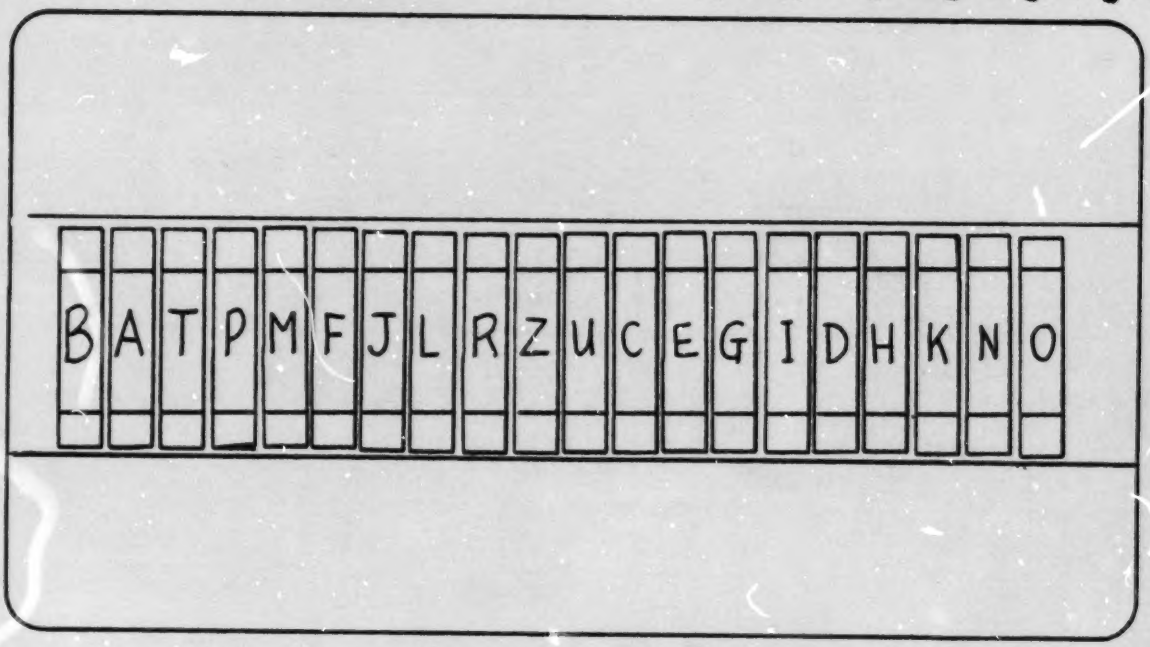
P.O. 3.01.08.01

NAME: _____ CLASS: _____ DATE: _____

Use the picture to answer the question.



1. What letter is on the fourteenth volume from the left? _____.
2. The letters on the fifteenth, twelfth, and thirteenth volume spell _____.
3. The letter K is on the _____ volume.
4. Place a blue "J" on the eighth volume.
5. Place a red "X" on the second volume.
6. The letter J is on the _____ volume.
7. The letter Z is on the _____ volume.
8. The letters on the seventeenth, twentieth, and third volume spell _____.
9. Place a red "J" on the ninth volume.
10. Place a blue "X" on the sixth volume.

P.O. 3.01.08.02

NAME: _____ CLASS: _____ DATE: _____

Mark the calendar according to the directions on page 72c.

1983

January

						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
30 23	31 24	25	26	27	28	29

February

		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28					

March

		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

April

					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

May

1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

June

				1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

July

					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
31 24	25	26	27	28	29	30

August

	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

September

				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

October

						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
30 23	31 24	25	26	27	28	29

November

		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

December

				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

P.O. 3.01.08.02

NAME: _____ CLASS: _____ DATE: _____

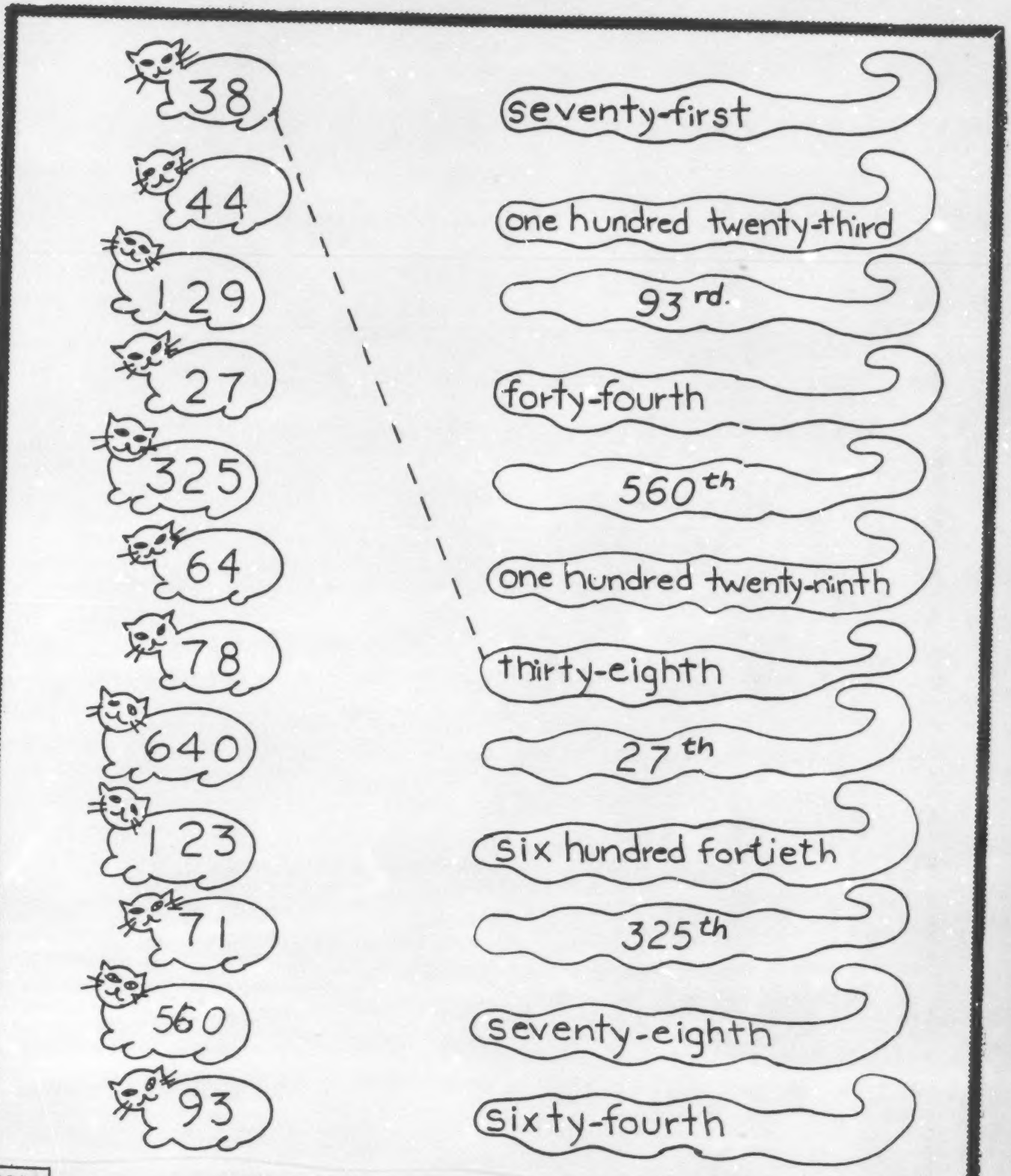
1. Put an X on the one hundred twenty-third day.
2. What is the date of the two hundred forty-first day?
3. Color the 24th blue.
4. Draw a box around the three hundred twenty-first, three hundred twenty-second and three hundred twenty-third days.
5. Draw a circle around the thirty-fourth, thirty-fifth and thirty-sixth days.
6. Color the one hundred ninety-ninth day red.
7. In the month of April color the twenty-ninth day green.
8. In the month of January color the twelvth day yellow.

* Did you find an easy way to count the days on the calendar? Tell us what you did.

P.O. 3.01.08.03

NAME: _____ CLASS: _____ DATE: _____

Connect the cat to its tail.
Draw a line from the cardinal number to the ordinal number.



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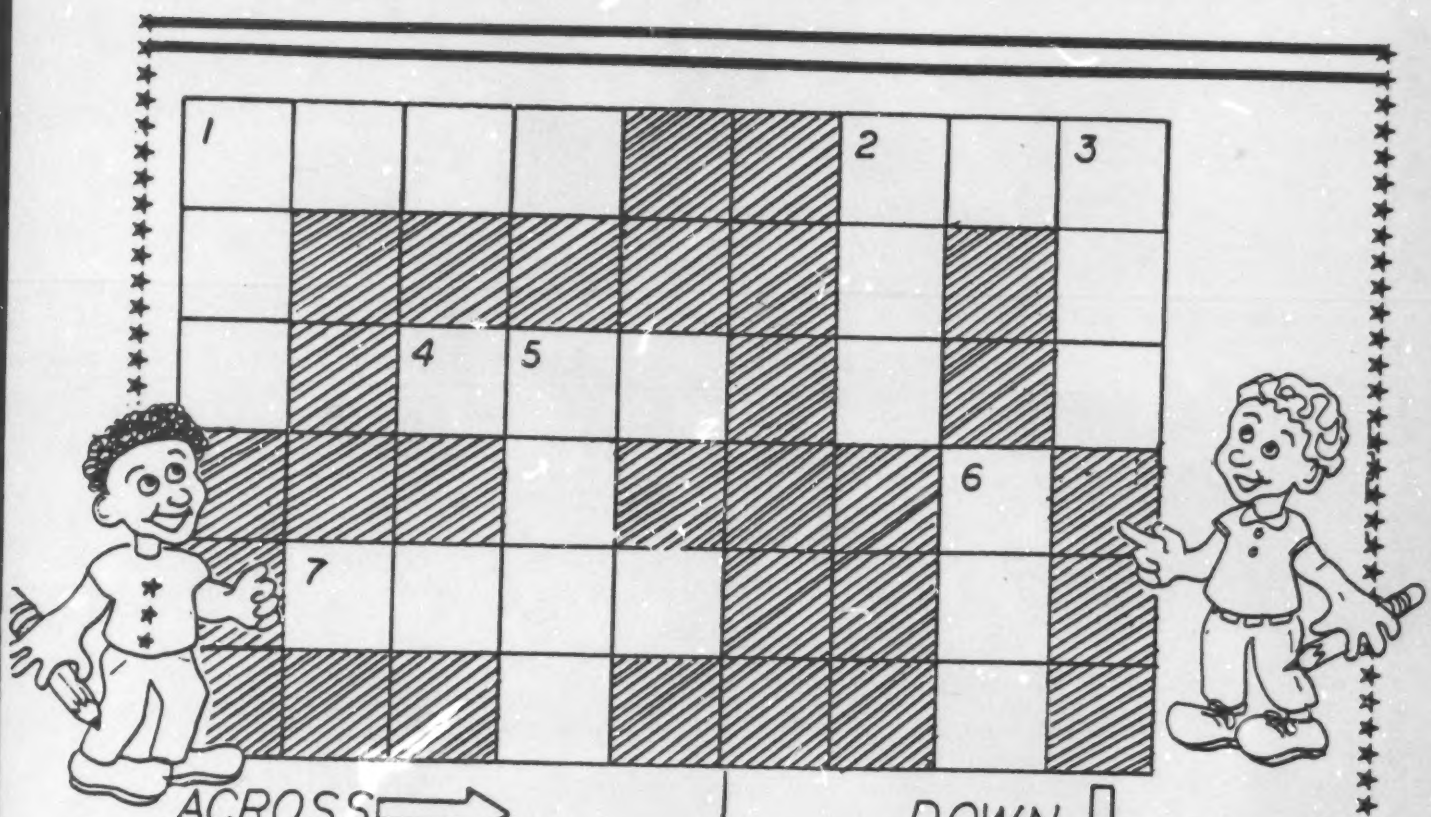
P.O. 3.04.11.01

NAME: _____ CLASS: _____ DATE: _____

Solve each problem using the partial product method, then complete the puzzle.



ACROSS ⇨

1 596 × 8

2 108 × 7

4 379 × 2

7 432 × 4

DOWN ⇩

1 52 × 9

2 247 × 3

3 113 × 7

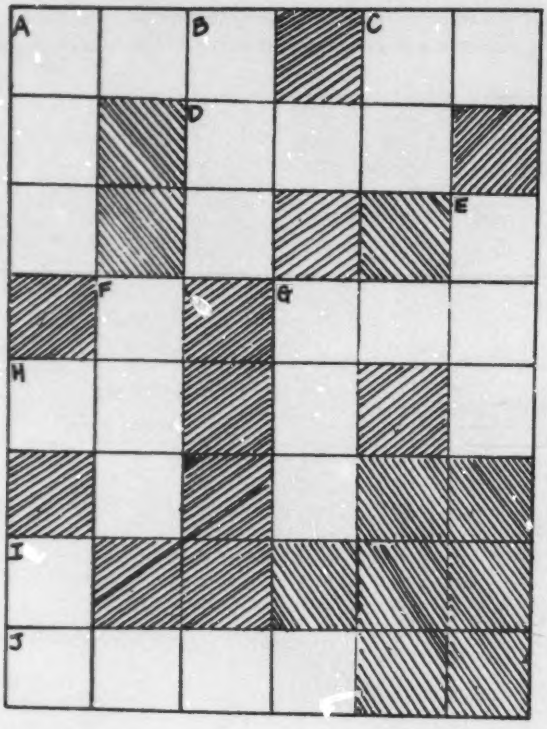
5 732 × 7

6 79 × 7

P.O. 3.04.11.02

NAME: _____ CLASS: _____ DATE: _____

Complete the puzzle by using the multiplication examples as clues.



147 × 5

27 × 3

251 × 3

264 × 2

43 × 6

41 × 7

44 × 2

47 × 8

12 × 2

523 × 4

314 × 3

53 × 4

36 × 2

P.O. 3.04.11.03

NAME: _____ CLASS: _____ DATE: _____

Solve the problems using both expanded and short methods.

You drink 8 ounces of milk each day, and there are 365 days in a year. How many ounces of milk do you drink in a year?

If you earn $215 a week how much do you earn in 8 weeks?

There are 119 pencils in each box. How many pencils are there in 5 boxes?

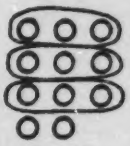
There are 375 books on each shelf in the library. How many books are on the shelves?

There are 63 strawberries in a quart. How many strawberries are in 3 quarts?

P.O. 3.05.08.01

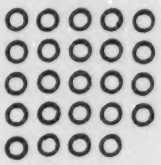
NAME: _____ CLASS: _____ DATE: _____

Circle the groups and complete each example using remainders.



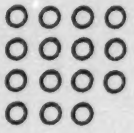
$$3\overline{)11} \quad 3 \text{ R. } 2$$
$$-\ 9$$
$$2$$

$11 \div 3 = \square$



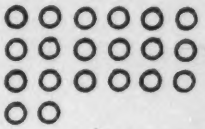
$24 \div 5 =$

$5\overline{)24}$



$15 \div 4 =$

$4\overline{)15}$

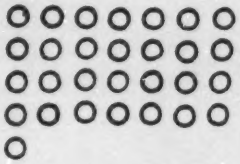


$20 \div 6 =$

$6\overline{)20}$

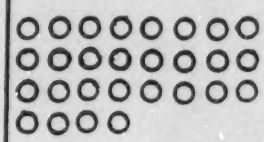
$17 \div 3 =$

$3\overline{)17}$



$29 \div 7 =$

$7\overline{)29}$

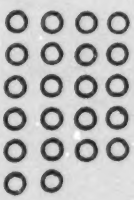


$28 \div 8 =$

$8\overline{)28}$

$15 \div 2 =$

$2\overline{)15}$



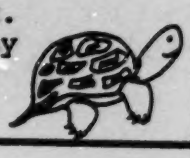
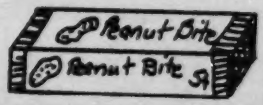
$22 \div 4 =$

$4\overline{)22}$

P.O. 3.05.08.02

NAME: _____ CLASS: _____ DATE: _____

Solve each problem.

	WORK SPACE
There were 16 turtles in a pet store The man put 3 turtles in each tank. How many tanks did he use? How many turtles were left over? 	
Kevin had 27¢. He spent it for 5¢ candy bars. How many 5¢ candy bars did he buy? How much money did he have left over? 	
Mr. Jones had 15 dimes. He divided them among his 2 children. How many dimes did each child get? How much was left over?	
Maria bought 16 markers. She divided them among 3 friends. How many did she have left for herself?	

P.O. 3.06.05.01

NAME: _____ CLASS: _____ DATE: _____

Shade in the letters under the improper fractions to spell a secret message.

SECRET MESSAGE

$\frac{2}{3}$	$\frac{8}{6}$	$\frac{3}{1}$	$\frac{1}{2}$	$\frac{5}{4}$	$\frac{2}{7}$	$\frac{1}{7}$	$\frac{6}{9}$	$\frac{8}{7}$	$\frac{5}{8}$	$\frac{4}{10}$	$\frac{7}{6}$	$\frac{9}{10}$
I	L	P	A	R	M	A	W	L	H	I	P	Z

$\frac{6}{8}$	$\frac{9}{4}$	$\frac{3}{5}$	$\frac{12}{11}$	$\frac{6}{8}$	$\frac{5}{1}$	$\frac{5}{8}$	$\frac{1}{3}$	$\frac{3}{4}$	$\frac{8}{6}$	$\frac{5}{6}$	$\frac{2}{3}$	$\frac{6}{7}$
A	R	T	L	F	P	I	N	D	Q	I	N	G

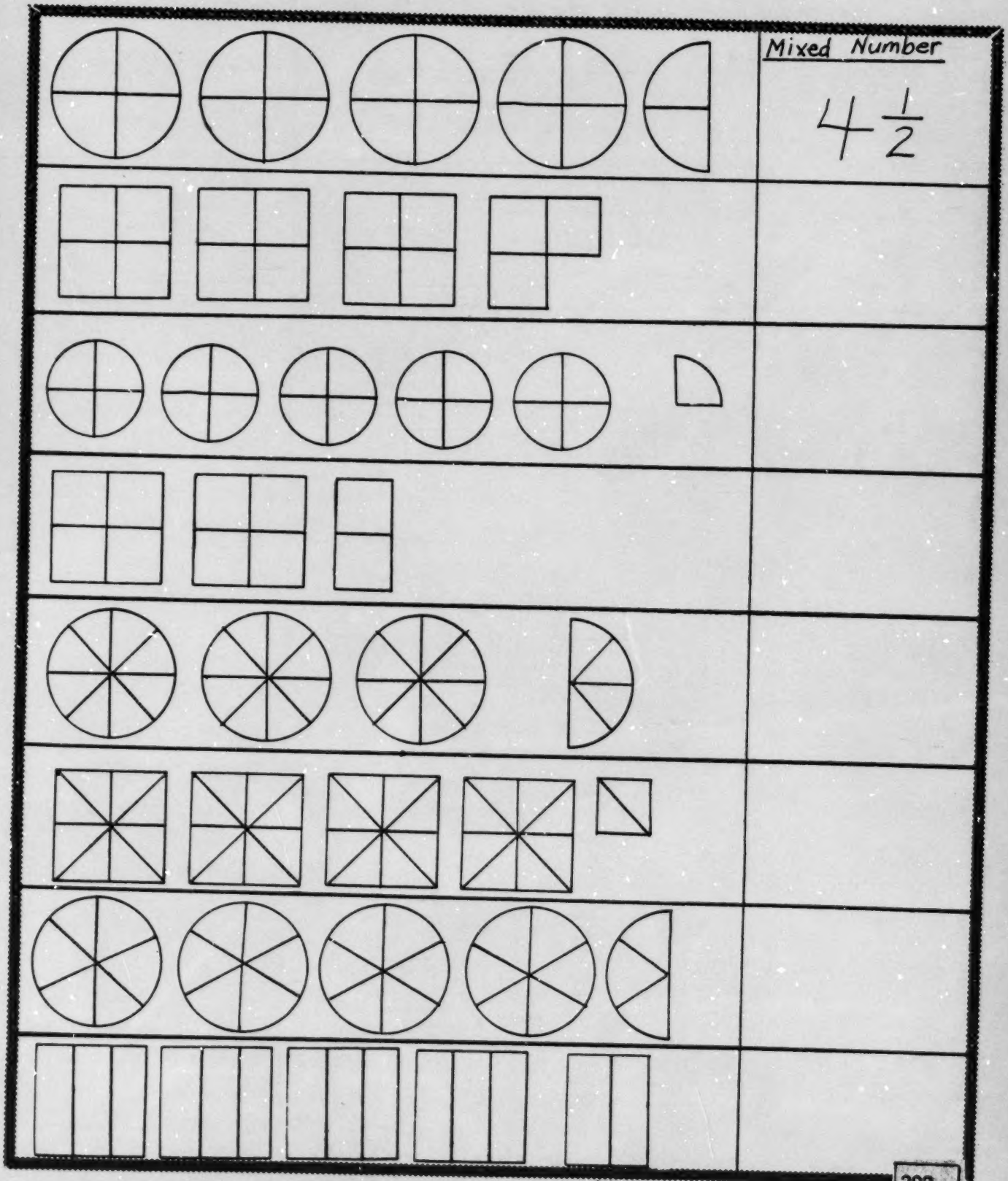
$\frac{2}{8}$	$\frac{8}{6}$	$\frac{9}{10}$	$\frac{5}{4}$	$\frac{5}{8}$	$\frac{10}{7}$	$\frac{2}{5}$	$\frac{6}{3}$	$\frac{6}{9}$	$\frac{9}{12}$	$\frac{4}{1}$	$\frac{4}{5}$	$\frac{6}{8}$
I	L	M	I	P	O	R	P	O	P	S	E	R

$\frac{7}{4}$	$\frac{2}{5}$	$\frac{4}{5}$	$\frac{8}{6}$	$\frac{6}{10}$	$\frac{1}{5}$	$\frac{5}{2}$	$\frac{2}{3}$	$\frac{7}{1}$	$\frac{5}{6}$	$\frac{4}{5}$	$\frac{6}{9}$	$\frac{6}{7}$
N	F	R	E	A	C	R	T	S	I	O	N	S

P.O. 3.06.05.02

NAME: _____ CLASS: _____ DATE: _____

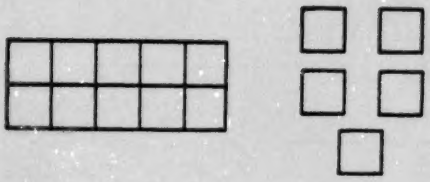
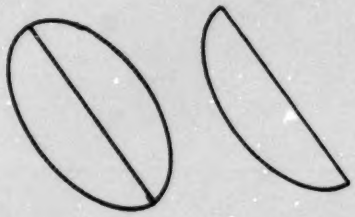
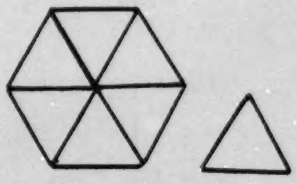
Write the mixed number that each drawing represents.



P.O. 3.06.05.03

NAME: _____ CLASS: _____ DATE: _____

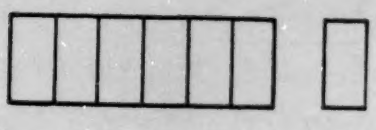
Fill in the chart.

Improper Fraction	Wholes and Parts	Mixed Number
$\frac{15}{10}$		$1\frac{5}{10}$
$\frac{7}{4}$		
$\frac{9}{8}$		
$\frac{3}{2}$		
$\frac{7}{6}$		

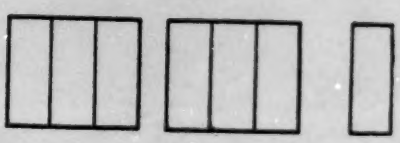
P.O. 3.06.05.04

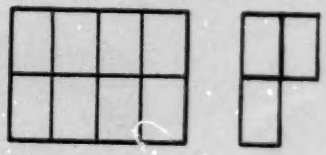
NAME: _____ CLASS: _____ DATE: _____

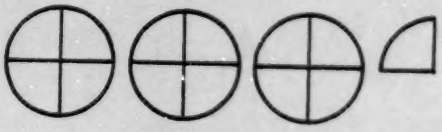
Write the mixed number as an improper fraction.

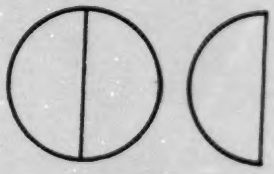
$1\frac{1}{6}$  $= \frac{7}{6}$

$1\frac{2}{4}$ $=$

$2\frac{1}{3}$  $=$

$1\frac{3}{8}$  $=$

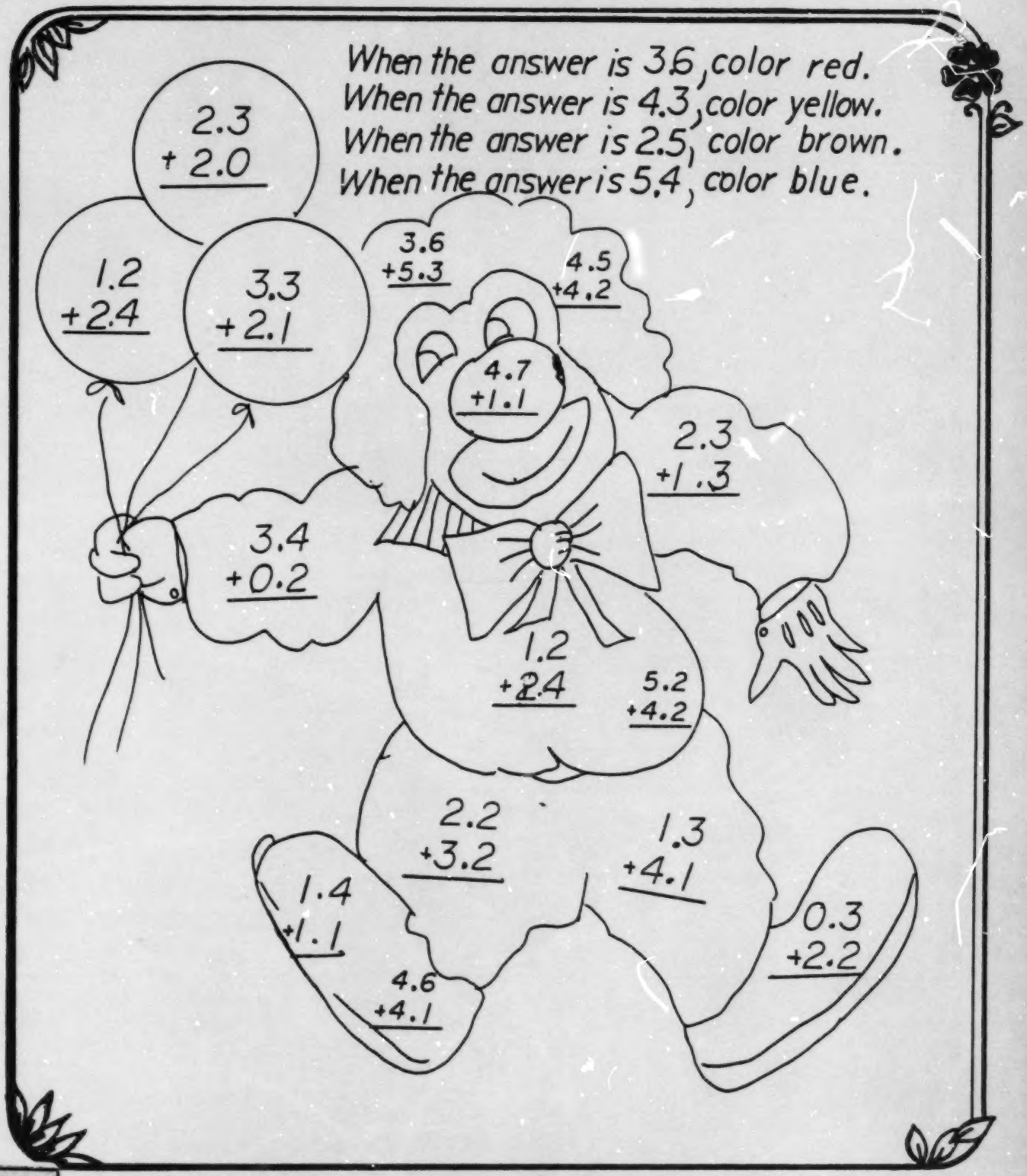
$3\frac{1}{4}$  $=$

$1\frac{1}{2}$  $=$

P.O. 3.07.02.01

NAME: _____ CLASS: _____ DATE: _____

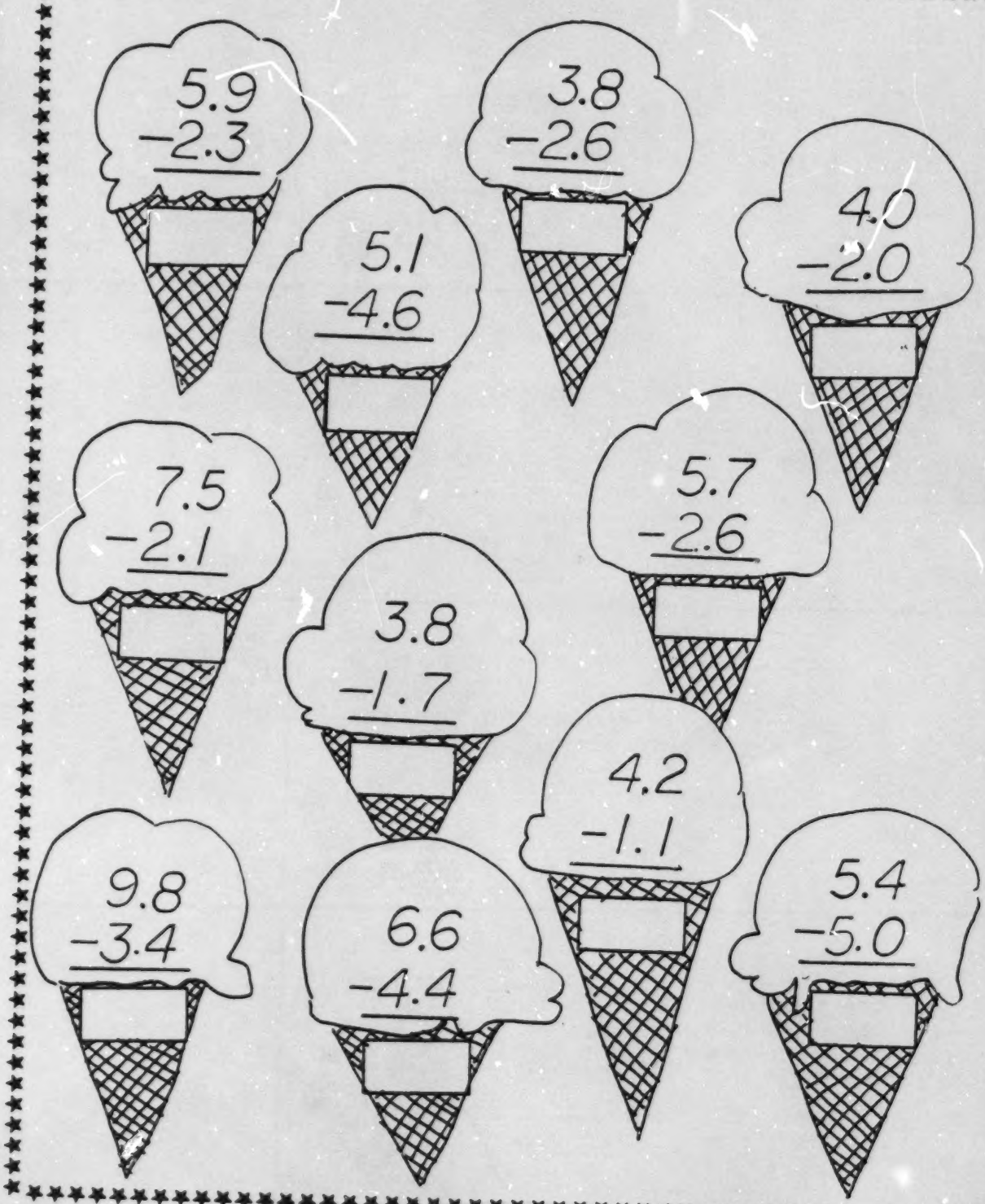
Follow the directions and color.



P.O. 3.07.02.02

NAME: _____ CLASS: _____ DATE: _____

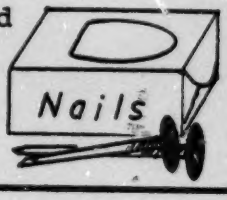
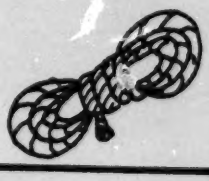
Subtract each example.
Write your answer in the bottom of the ice cream cone.



P.O. 3.07.02.03

NAME: _____ CLASS: _____ DATE: _____

Solve each problem.

1. Dick used 2.4 boxes of nails. Barbara used	WORK SPACE
1. Dick used 2.4 boxes of nails. Barbara used 3.5 boxes. How many boxes of nails were used in all? 	
2. Jason had 3.4 cans of paint. He used 2.3 cans of paint. How many cans of paint were left?	
3. Joe bought 22.4 m of rope for the tree house. Helen gave him 8.2 m more. How much in all? 	
4. The tree house flag is 4.5 m high. Miriam lowers it 0.3 m. Michael lowers it 0.2 m more. How high is the flag now?	

P.O. 3.13.04.01

NAME: _____ CLASS: _____ DATE: _____

Fill in the missing numbers.
Write a rule for each.
Example 2, 4, 6 8 10 12

16, 18, 20, ☐, ☐, ☐

name of rule _____

45, 40, 35, ☐, ☐, ☐

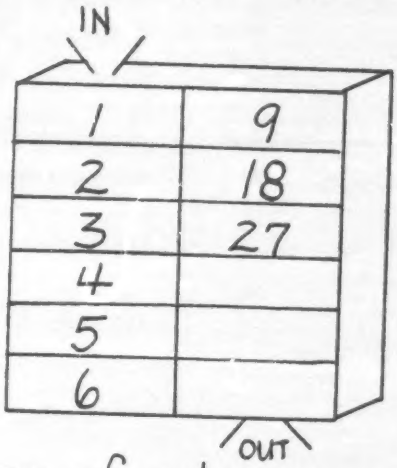
name of rule _____

14, ☐, 28, ☐, 42, ☐

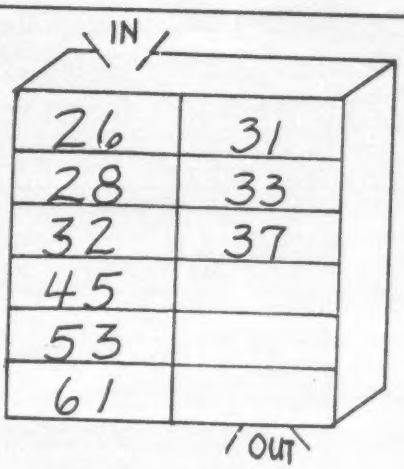
name of rule _____

57, ☐, 43, ☐, 29, ☐, ☐

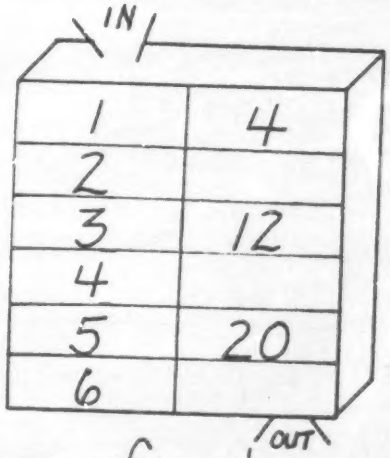
name of rule _____



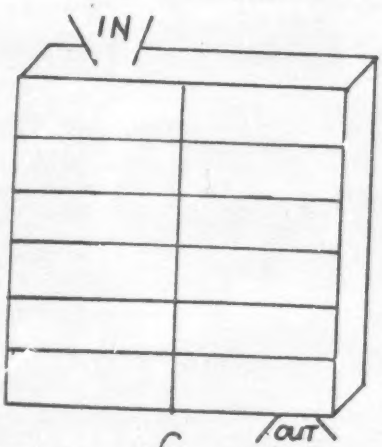
name of rule _____



name of rule _____



name of rule _____



Make one of your own.

name of rule _____

P.O. 3.13.04.02

NAME: _____ CLASS: _____ DATE: _____

Form the correct number pattern in each box.
Then write the rule for each.

10, 5, 20, 15, 25, 40, 35, 30

5, ☐, ☐, ☐, ☐, ☐, ☐, ☐

rule _____

18, 9, 45, 27, 36

☐, ☐, ☐, 36, ☐

rule _____

4, 0, 12, 6, 10, 2

12, ☐, ☐, ☐, ☐, ☐

rule _____

8, 5, 11, 14, 2, 17

☐, ☐, ☐, ☐, ☐, ☐

rule _____

Write a pattern.
The third number is 37. The rule is subtract 7.

Write a pattern.
The first number is 10. The rule is add 3. Stop at 25.

Write a pattern
The second number is 14. The rule is add 2. Stop at 20.

Write a pattern.
The fourth number is 18. The rule is subtract 5. Stop at 0.

Write your own rule. Let a friend write the pattern.

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